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MONOGRAPH.

ART. XI.—A Statistical Inquiry into the Causes, Symptoms, Pathology, and Treatment of Rupture of the Uterus. By James D. Trask, A.M., M. D., Brooklyn, New York. Read before the Brooklyn Medical Association, Oct. 14th, 1847.

The principal object in undertaking the examination of this subject after the plan adopted in the following paper, was that of determining, if possible, the most successful course of treatment of rupture of the womb, when accompanied by certain conditions which embarrass delivery, and for

our conduct under which we have now no definite guide.

At the present day, we imagine that there are few, if any, who would advocate the course formerly pursued, of abandoning all cases of rupture to nature. For many years the profession in England and in this country, influenced by the high authority of Dr. William Hunter, and afterwards by that of Dr. Denman, carefully abstained from any attempt at delivery, as calculated only to increase the patient's suffering, and to diminish her

chance of recovery.

This opinion and practice prevailed, notwithstanding several successful cases of delivery in France and Germany, until the year 1784, when Dr. Douglas resorted to artificial delivery, and his patient recovered. Since his time, the universal judgment of the profession appears to be, that delivery, when practicable, should in all cases be resorted to. When a favourable condition of the soft parts, and a proper correspondence between the head and the pelvis will allow of the introduction of the hand, and delivery by version, all authorities agree in recommending it. But when obstacles to a speedy and easy delivery exist, as from contraction of the edge of the rent, after the escape of the fætus into the peritoneal cavity, or from an undilated os uteri, or from a contraction of the pelvis, or partial closure of the vagina, the rule of practice is by no means determined, and great diversity of opinions exists as to the proper course to be pursued. In each of these cases, we are advised by different authorities to opposite lines of conduct.

Of rupture occurring during pregnancy, Burns, p. 266, after discountenancing forced dilatation of the os, and preferring to it the Casarean section, adds, "but this ought not to be performed, unless we can thereby save the child, or the patient has reached an advanced period of pregnancy." "To leave the case to nature, is most likely to be successful, especially when the rupture happens in the early months." Of rupture during parturition, at page 478, he remarks, "when the os uteri is rigid, and very little dilated before the accident happens, and cannot be opened without extreme irritation, or when the uterus is spasmodically and violently contracted between the rent and the os uteri, I consider attempts to deliver as adding to the danger. In such cases, and in deformity of the pelvis, we must perform the Casarean section or leave the case to nature." "If called early, while the child is yet alive, before the abdominal viscera are irritated by the presence of the fætus, we are warranted to extract the child by a small

incision;" and even after many hours have elapsed, he thinks gastrotomy by a small incision offers a better chance than a delivery through the rent, though he does not venture an opinion on the relative chances of gastrotomy and non-interference.

Merriman, in his Synopsis, (James' edition, p. 151,) says, "if some hours had elapsed after the parts had given way, or if there were a difficulty in passing the hand on account of contraction of the uterus, it would

then perhaps be more prudent to leave the event to nature."

Velpeau, in Arch. Gén. de Méd., tom. iii. 4th series, considers it improper to recur to extreme surgical means, until all attempts to return the child into the uterus, whether it has escaped either partially or wholly from it into the abdominal cavity, have failed.

Dewees says, when the child has escaped into the abdomen, "the delivery, per vias naturales, may be either difficult or impossible, even in a well-formed pelvis;" "the only chance in this case is, the immediate performance of gastrotomy; should a contracted pelvis complicate the case,

the latter operation is the only alternative."

F. Ramsbotham (Process of Parturition), remarks, "feeling as I do, that to leave the child in the cavity of the belly is almost certain death to the mother, I should seriously entertain the question whether the parietes of the abdomen should be divided and the child extracted by that means, or whether the patient should be abandoned to the chance of what nature might effect; and the answer must depend entirely on the circumstances of the individual case. If she were in tolerably good spirits, if she had not suffered so great a shock as usual from the accident, particularly if, after explaining to her what had occurred, she were anxious for the operation to be performed, I should have no hesitation in undertaking it. But if I found her sinking, if the powers of life were ebbing fast, and particularly if thirty or forty minutes had elapsed since the rupture, and the movements of the fætus had quite ceased, I should by no means sanction the incision, because of the painful nature of the operation, and because I should presume it would avail nothing, and might probably hasten her death."

Dr. Davis (Obstetric Medicine), merely says, "inasmuch as laceration of the womb is not an essentially mortal accident, such services (delivery) must unfortunately be sometimes undertaken, and therefore ought to be judiciously executed." "We should interfere without loss of time when the circumstances might appear urgent and desperate, and abstain from such interference when the nature of the symptoms might promise a proba-

ble successful issue without it."

Jacquemier (Man. des Accouch., tom. ii. p. 300), says, "when the contraction of the rent or of the neck, which cannot be overcome with advantage, in case it remains rigid or imperfectly dilated, will not allow the hand to penetrate the cavity of the peritoneum, or when the pelvis is contracted to the degree of rendering the extraction of the fectus uncertain even after diminishing the volume of the head, there remain no other resources than gastrotomy, or leaving the whole to nature." Gastrotomy, he says, offers chances of recovery less unfavourable than those of abandonment, especially if the operation be performed before symptoms of inflammation present themselves.

Dr. Robert Lee, in his late work, p. 436, advises resort to perforation when the head presents; and that when the child has passed through the rent into the abdomen, an attempt should be made without delay, to deliver by grasping the feet. "If a considerable time has elapsed after the acci-

dent, and the uterus has contracted so closely that the hand cannot be passed through the orifice and the rent, the best practice would be to leave the case to nature. Some have recommended gastrotomy under these circumstances; but the child is already dead, and the mother could hardly be expected to survive after such an operation." If the fætus has escaped into the peritoneal cavity, the patient, he says, may recover without gastrotomy.

Colombat (Amer. edition, p. 236), says, "if the child have not passed entirely into the abdomiss" cavity, we should always endeavour to terminate labour by the natural passages; but in the contrary case, recourse must be had to gastrotomy, because this extreme means offers some chance of safety to the mother, and especially to the child, which would indubitably

perish unless we should act with great promptitude."

"But what is to be done," inquires Dr. Blundell, "where the fætus is in the abdominal cavity and cannot be reached, the child being inaccessible in consequence of the contraction of the aperture? Why, if there seemed to be a disposition to rally a little, I should feel inclined to try palliatives, if these were indicated, and I should leave the patient mainly to the natural resources." "But what if the child should escape into the peritoneal sac? and if, further, the symptoms, being most alarming, there should appear to be no hope for the woman in her natural resources? Why, in such cases, it would be for sober consideration, whether it might be advisable to have recourse to abdominal incision, provided the patient would heartily consent." The success of one case referred to by him, he thinks, offers encouragement, but he inquires in a note, does it "belong to an anomaly or a general principle?"

Dr. Collins, in his "Practical Treatise," is decidedly in favour of perforating the head when it presents and does not recede. "When the child has escaped out of the uterus, it is now the general practice, and undoubtedly the best, to introduce the hand through the lacerated parts into the cavity of the abdomen, and bring down the feet." "In cases where laceration has occurred previous to the os uteri being dilated, it is thought the best chance of recovery would be to open the parietes of the abdomen, cut into the uterus, and so extract the child." This, he thinks, can scarce ever

occur except as the result of external violence.

Dr. James Hamilton (Pract. Observ., p. 111), says, "if, from the state of the passages, the infant cannot be drawn forward through the usual apertures, the parietes of the abdomen should be divided."

Churchill (Amer. edit., p. 372), says, "in some cases of ruptured uterus, when delivery is imperative, but impracticable, per vius naturales, the Cæsarean section has been proposed. It appears to me the additional risk

from the operation, renders its propriety very questionable."

Among these, it will be seen that there is a great variety of sentiment as well as contrariety. Thus Blundell and Davis would not attempt delivery so long as there appeared to be any chance of recovery undelivered. Lee and Merriman would abandon the woman unconditionally when the rent has become diminished by contraction. Burns and Ramsbotham would be rather disposed, under these circumstances, to practise gastrotomy early, the former by a "small" incision. Blundell would wait until there should be no chance of recovery if left alone. Velpeau would try every other mode before resorting to gastrotomy. Dewees, on the contrary, says the only chance is in its immediate performance. Churchill considers its propriety very questionable. Jacquemier would perform gastrotomy where there should be so great contraction as to render it doubtful whether the fætus

could be extracted after perforation. From the tenor of Dewees we infer that he considers it expedient in contractions of a less degree than what

would absolutely prevent delivery per vias naturales.

These directions are given, for the most part, by those who are regarded as of standard authority; and the countenance of either would be considered a full justification for following the course recommended by him; but where there is so great disagreement as to the proper course, it is evident that they cannot be regarded as equally safe guides.

There is, then, no established rule of practice under the circumstances to which we allude. By men of equally high reputation we are advised, to abandon to nature, and to practise gastrotomy, in cases of rupture and escape of the fœtus; and when, from a contraction of the pelvis, or an undilatable os uteri, or contraction of the vagina, serious obstacles are presented to speedy delivery, some advise the removal by the natural passages of the fœtus, mutilated, while others affirm that the abdominal section affords the

patient the best chance of recovery.

Since neither of these opinions can be referred to as of controlling authority, were it not for the acknowledged great fatality of the accident, under any course of management, he who practised the more heroic course would be censured by those who have taken their rule of practice from Merriman, Blundell, Davis and Lee; and the disciples of the latter charged with culpable neglect, by those who believe in the propriety of active interference.

The difference in individual opinions may arise from a mere partial examination of the subject, or from prejudice in favour of or against particular operations under any circumstances; and especially from the result of cases in which each may have happened to be personally concerned. A successful case of gastrotomy would be pretty certain to induce a repetition and recommendation of that practice under like circumstances, while an unsuccessful termination would probably discourage from a similar attempt in future.

Although rupture of the uterus is comparatively a rare accident, the determination of the practice to be pursued under all conditions of its occurrence, is a matter of the highest practical importance. If the chance for the unfortunate patient's recovery is at the best small, it surely is a matter of great moment, under circumstances of peculiar difficulty, to know what course presents the greatest probability of a favourable issue. In other words, it is our duty to inquire, which places the woman in the most favourable condition for recovery, when the fœtus has escaped into the abdomen, and the uterus is contracted-the abandonment of the patient to the resources of nature, or delivery by gastrotomy? And when, from any cause, such a disproportion exists between the fætus and the maternal passages, as to render delivery per vias naturales difficult, does the prompt removal of the fætus, by an operation itself severe, but still of very short duration, and which allows the patient almost at once to rally, or the tedious, painful, and often long protracted procedure of dragging it, mutilated, through the natural passages, afford the best chance of immediate security, and place her in the best situation for ultimate restoration to health?

Rupture of the womb is undoubtedly one of the most appalling accidents that can complicate labour. Interference must be judicious; delay may compromise the patient's existence, and improper interference may hasten the fatal end. Probably the accoucheur is never called to act under circumstances in which he feels more the need of the support afforded by well established principles of action; not only as a relief for the anxiety by

which he is oppressed, but that he may be secure from the charge of rashness on the one side, and of incapacity and inertness on the other.* It is true, that in the instances just spoken of, in a medico-legal point of view, either course of conduct is perfectly justifiable, in the present absence of unequivocal authority for one or the other; but, nevertheless, it must be admitted, that this fact is but a proof that the principles of practice should, if possible, be determined. Especially is it desirable that we should be acquainted with every circumstance that may materially affect the issue, if what F. Ramsbotham states is generally true, where he says, p. 425, "I have seldom known a case in which the uterus ruptured, where the attendant was not more or less blamed."

Such principles can only be discovered by ascertaining the collective experience of the profession at large; and this can be obtained only, by a careful comparison of the cases reported by authors on midwifery, and of such as form contributions to periodical medical literature. The great design of these contributions is, or should be, the recording of isolated facts, which, taken by themselves, may be entertaining from their unusual character, and perhaps instructive from the practical lessons they convey, but whose highest value appears only when they are taken collectively. Grouped and collated, they serve as data from which principles of practice may be determined, so soon as they have accumulated sufficiently to render such deductions safe. To be fully adapted to this important end, every case should be reported with a fullness of detail, whenever it is possible, which shall leave no essential point unnoticed. The more complete the narration of its particulars, the more available is it for the advancement of accurate information. This consideration seems not to be kept sufficiently in view by those who publish cases; and a large proportion of the histories of ruptured uterus leave many important points unnoticed. Some furnish but one or two particulars, and a large number of cases must be collected to furnish anything like a proper number of observations upon any one point. This is, however, the only mode that we have of acquiring the general history and results of the accident we are treating of, and we trust that notwithstanding its imperfections, it may lead to important conclusions. In some instances, moreover, we are aware that it is impossible to obtain all the particulars essential to a complete history.

We are not ignorant of the difficulties attending an examination of the subject in the manner proposed. So many conditions come in to modify the results, as constitution, circumstances in life, &c., that scarce any two cases admit of a fair comparison in all respects; nevertheless, we have sought to note the prominent conditions that might influence the result, and

as far as possible make allowance for them.

In pursuance of our design, of ascertaining what the experience of the profession at large has shown to be the most successful course in the management of rupture of the uterus, we have examined nearly all the treatises in our language upon midwifery, diseases of women, &c., and the large collection of foreign and domestic journals in the New York Hospital Library. The monographs of Douglas, Ingleby, and Duparque, the collections of Perfect and Baudelocque, and a volume published by Dr. Dewees, of observations on particular subjects, we have been unable to obtain access to; this is to be regretted, as they would have furnished additional cases. Our grateful acknowledgments are due to the liberality of Profs. W. Chan-

See report of a discussion upon a case in which gastrotomy was performed, in Lond. Lancet, 1828-9, vol. i. p. 310.

ning, of Boston, C. D. Meigs, of Philadelphia, and G. S. Bedford, of New York, who occupy distinguished positions as teachers and practitioners of midwifery, and who have kindly placed at our disposal histories of cases of rupture never before published, which their extensive experience has brought under their observation; and also to other gentlemen who have aided us by cases, and the use of their libraries.

In making the collection from Journals and authors, there has been constant necessity of guarding against recording the same case more than once, since it is not unusual to find the same quoted in several journals, in part in full, in part abbreviated; thus rendering it often difficult to be identified. Part are quoted at second hand, the originals not being ac-

cessible.

These cases were analyzed and tabulated under the heads of Age, Health, and Condition—Character of Previous Labour—Nature of the Labour, and its Duration—Time from Rupture to Delivery—Mode of Delivery—Time occupied in Delivery, and whether difficult or not—Hernia of the Bowels, &c., accompanying it—Time from Rupture to Death or to Recovery—Post-mortem Appearances—Presumed Cause of Rupture.

In this way, by casting the eye up and down the column, a complete view was presented of all that the whole series furnish under a given head, and an opportunity was afforded of comparing cases of the accident,

occurring under great varieties of circumstance.

The abstracts thus obtained, have been compared with the histories that

furnished them, twice, and in several instances oftener.

We have mentioned sources from which cases could have been obtained, to which we have not had access; there are probably others reported in the Continental journals of Europe, and perhaps in the journals of this country, which have not come under our notice; but from the frequency of quotations of cases of interest, probably not a large number have been omitted. The number collected is considerably larger than has, to our knowledge, been before brought together, being over three hundred. In consequence of the inconvenience of large tables, the analysis of each case has been copied in the form of a brief but continuous history. This abstract is published in order to present a series of cases that should exhibit the different phases which this accident may assume, as its phenomena are made to differ by conditions peculiar to each case. A much greater impression is made upon the mind by the perusal of several cases presented in succession, than by any general description, however extended it may be, or any mere statement of the proportion of instances in which given symptoms occur. Again, as the object of this inquiry is the truth, if our inferences are incorrect, the mistake may be readily pointed out. The cases being gathered from a great variety of sources, it is hardly to be supposed that the pains would be taken to recur to the original account, and many of them would be inaccessible to a large portion of our readers, if merely referred to.

We have arranged these cases, so as to bring together by themselves those occurring during gestation, and those met with during parturition. This distinction is made rather as a matter of convenience, than with reference to any essential differences in the accident as occurring under these two conditions. The rupture itself, during pregnancy, is more usually the first of the train of morbid symptoms, whereas in parturition, it usually succeeds labour pains of longer or shorter duration; and yet this is by no means universal. As exhibiting the general features of the accident when occurring during pregnancy, these cases have been grouped together; but

inasmuch as in several instances rupture has occurred when labour has come on, or been artificially induced, before the full period of gestation, this distinction could not in all cases be regarded, and has not been rigidly adhered to. We have numbered each individual case, even though it was merely referred to in the original from which it was copied; several, for example, merely state that the woman died undelivered. This statement, in so far as it goes, is as valuable as a more elaborate account, and such are numbered for subsequent reference.

I .- Cases of Recovery from Rupture occurring during Gestation.

CASE I.—At the sixth month of pregnancy violent pains occurred, without any previous unusual symptoms—sudden vomiting, faintness and sense of distension of the abdomen—gastrotomy two hours after the accident. Recovered in fourteen days.—Lond. Med. Gaz., vol. i. p. 101, from Report. Méd. Chir. di Torino.

Case II.—A healthy peasant, at 35—mother of four. About seven and a half month, suffered a severe blow on the abdomen, and felt a severe tearing pain. Factus could be felt in the abdomen—child had ceased to live—usual alarming symptoms of rupture absent. After several days part of a putrid factus escaped per viginam, and part was extracted, as there were well marked symptoms of metritis. After a few days the rest escaped through an opening in the abdomen five inches in diameter. Menses returned in less than two months.—Brit. and For. Med. Rev., vol. v. p. 581, from Nægelé in Neue Zeitschrift für Geburtskunde.

CASE III.—Æt. 35—when, as she supposed, five months gone, seized with uterine contractions and abdominal tenderness. Six weeks before this, after violent pumping, felt a strange sensation in the abdomen, with faintness, and did not recover strength. The tenderness continued three or four days with sharp pain; soon the fetus could be felt in the peritoneal cavity after an attack of hemorrhage. Ten days after this a fecus of about seven months was expelled. The placenta had partly escaped through a rent in the upper and back part of the left side of the uterus. Another fetus could still be felt in the abdomen. After a few months she remained feeble.—Dr. Randall, Lond. Med. Gaz., vol. xxix. p. 45.

Case IV.—Had undergone Casarean section fourteen months before. At the seventh month labour-pains came on, and symptoms of rupture, and child passed into the abdominal cavity. Between the fifteenth and twentieth day after, the circuity of the abdomen gave way, and a putrified focus escaped. Recovered.—Brit. and For. Med. Rev., 1844, p. 537, from L'Expérience, Nov. 1843.

Case V.—Æt. 28—deformed by rickets; had been delivered by Casarean section. At fourth month of her next pregnancy an ulcerated spot appeared on the abdomen near the cicatrix, which, during two months, increased—a slight cracking was heard, the abdominal parietes gave way, and the fotus escaped into the world. The direction of the rent of the uterus was unascertained, that of the abdomen was transverse. Within three months the menses returned.—Edin. Med. and Surg. Journ., 1845, vol. i. p. 515, from Allegem. Repert., 1844. Dr. Præl.

Case VI.—At. 36—ninth pregnancy; fell from her bed in the second month, and afterward suffered great disorder in the uterine region. Severe constitutional symptoms appeared until the tenth month, when an abscess opened in the umbilical region. The opening was enlarged, and then the fectus extracted piecemeal. Recovery rapid; rupture probably occurred at the second month.—Dr. Salemi, from Journ. de Progrès, vol. iii., in the N. Am. Med. and Surg. Journ., vol. iii. p. 252.

Case VII.—Æt. 24—unmarried; full habit; seventh month. Violent griping pains existed for three days in the abdomen, and the membranes were found ruptured. Extremely violent and distressing pains came on; the os tender and undilated. After intolerable agony, the child was expelled with great force; putrid. The posterior and inferior segment of the uterus was torn off, attached by less than two inches in front. The intestines filled the brim of the pelvis. The intestines were returned, and the lip of the cervix replaced. Condition extremely dangerous for many days, discharging immense quantities of dark offensive fluids

from the vagina. Seven months afterwards the vagina was blocked up by a very hard, insensible substance, and her health delicate.—Mr. Wood, Lond. Med. Repos., vol. xv. p. 450.

CASE VIII.—Nothing peculiar in the pregnancy. At seventh month seized with violent hemorrhage and slight pain, which continued and increased, and next day she was delivered by version, the shoulder presenting. On removing the placenta, the uterus was found ruptured at the posterior and inferior parts; and there was hernia of the intestines through the rent. Recovered in three weeks, and had another child.—Mem. Med. Soc. Lond., in Edin. Pract., vol. v. p. 584.

Case IX.—Act. 20. In the ninth month, a sudden fainting fit and severe pain in the abdomen. Focus discharged through a fistulous opening in the abdomen. Recovered.—Lond. and Edin. Month. Journ., 1842, from Gaz. Méd., 1841.

Case X.—Rupture in fourth month; terminated by suppuration at the navel, and excrements discharged at the opening for some time.—Burns' Midwif., p. 264, from Dr. Drake, in Phil. Trans., vol. xiv. p. 121.

Case XI.—A washerwoman at Brent—rupture from a fall in seventh month—fortus ultimately expelled at the navel.—*Ibid.*, from *Mém. Acad. Science*, 1709.

Case XII.—Sixth month; fall; rupture; immediate fainting; discharge from the vagina; child expelled per anum.—Ibid., from Mém. Acad. Sci., 1706, Guillerm.

II. Cases of Rupture before the Termination of the full period of Gestation, which did not Recover.

CASE XIII.—Æt. 26—third pregnancy; nothing unusual in previous labours. Awakened in the morning by severe pain about the umbilious, succeeded by yomiting unaccompanied by pain. Died in eighteen hours after tupture.

vomiting, unaccompanied by pain. Died in eighteen hours after rupture.

Post-mortem.—Cavity of abdomen filled with blood; rupture at the fundus, through which the focus had escaped.—Mr. Hott, Lond. Med. Repos., vol. vii. p. 375.

Case XIV.—At. 43—twelfth pregnancy; corpulent, but active; of perfect make. Without any regular labour-pains, she suddenly had two very violent—the os hard, undilated and high up; peritonitis supervened. On thirteenth day a putrid fetus was "extracted," after which she gained for a few days, but sunk on the twenty-fifth day from rupture.

twenty-fifth day from rupture.

Post-mortem.—The focus had escaped into the cavity of the peritoneum, and a sac had been formed around it.—Lond. Med. Repos., vol. xxi. p. 327, from Transacts.

of Apothecaries.

CASE XV.—At the sixth month seized with strong pains, lasting three or four hours; motions of the fœtus ceased—death after several hours.

Post-mortem.—The fortus swimming in blood, in the midst of the intestines—bifid uterus—rent in one division.—Dict: des Sci. Méd., vol. xlix., from Anatomie de Dionis.

CASE XVI.—At the fourth month symptoms of rupture occurred. After this she menstruated, and four months after the rupture died.

Post-mortem.—A rupture closed and cicatrized on the internal surface, but still open toward the abdomen; a fætus was found in the abdomen.—Phil. Med. Journ., vol. i. p. 80, from Journ. de Med., 1780.

CASE XVII.—At seventh month, after being jammed by a carriage against a wall, had at once violent pain and flooding. She languished for about five months, and died.

Post-mortem.—Evidences of great inflammation in the abdomen. Uterus natural, except a rent posteriorly which had not healed; fætus in the peritoneal cavity, putrid.—Ibid. from ibid.

CASE XVIII.—Æt. 20—married a few months; tolerable health; habitual dysmenorrhæa. After an excursion at time of quickening, seized with vomiting and syncope, and died in less than one hour.

Post-mortem.—A rent five inches long in the anterior part of the uterus from the cervix; the fixtus without the uterus surrounded by coagula; the uterus covered with dark-coloured spots, and easily torn, and both ovaries diseased. Rupture

supposed to be owing to the movements of the fectus.—Mr. Else, Lond. Med. Gaz., vol. ii. p. 400.

CASE XIX.—Æt. 25—second pregnancy at fifth month; had some pain and uneasiness in the abdomen and vomited once, collapse ensued, and in a few hours she died.

Post-mortem.—A large quantity of blood in the abdomen; a rent in the superior and posterior wall of the womb, one and a half inches long; the fotus in the peritoneal cavity; the cervix healthy; the os closed; the body of the uterus "rather thinner and much softer than natural."—Mr. Nunn, Lond. Med. Gaz., vol. xxi. p. 1030.

CASE XX.—Æt. 32—mother of eight; near full time had a fright, causing her to turn quickly, when she was seized with sudden pain in the back, extending to the abdomen, with faintness and palpitation. Eight days after, the same symptoms were renewed, and she died three-fourths of an hour after the birth of a full-grown child.

Post-mortem.—A large amount of blood in the peritoneal cavity; the uterus not contracted; hydatids in the right ovary; two long and one short rent through the peritoneal coats of the uterus.—Mr. White, Dub. Med. Journ., vol. v. p. 324.

Case XXI—Æt. 24—at fifth month, second pregnancy, slight hemorrhage came on with pains; these recurring often, she was much reduced, and the back and feet could be felt through the abdominal walls. After a few weeks, violent pains came on; os scarce dilated; ergot given; sank exhausted.

Post-mortem.—Fortus escaped through a longitudinal rent in the right side of the uterus, and near the cervix a second rent not through the peritoneum; the head and placenta remaining in the uterus. A great quantity of fluid, blood, coagula, &c., in the cavity. The structure of the womb rather softened; the feetus apparently of six and a half months.—Brit. and For. Med. Rev., vol. vi. p. 539, from Gaz. Méd., 1837.

Case XXII.—Æt. 26—had one child, and three miscarriages. At two and a half months, while waltzing, after taking a dinner, and cold bath, she felt all at once a cracking in the abdomen, and became faint almost immediately. Most alarming symptoms rapidly succeeded; abdomen became swollen and painful, and perfect collapse ensued—no hemorrhage—neck of the uterus natural. It was believed to be rupture of the liver; two colleagues afterwards called it acute peritonitis—was leeched; died about thirty hours after rupture.

Post-mortem.—A great quantity of blood in the peritoneal cavity; at the fundus was a considerable rent of a circular form, two inches in diameter; the uterine tissue healthy, except about the rent, where it was evidently softened, and the torn surface rough and unequal—the ovum in the peritoneal cavity.—MM. Moulin et Guibert, Arch. Gén., 1825, p. 382.

Case XXIII.—Æt. 25—robust—at commencement of the seventh month aborted, in consequence of a rupture of the womb and the posterior wall of the bladder, into which the fectus escaped; some bones passed away, and at the end of two months, she died of gangrene.

Post-mortem.—The uterus and bladder united by false membranes.—Arch. Gén., 1828, p. 109, from Memor. d. Math. e Phis. d. Ac. d. Sc. d. Lisboa, vol. ii. Dr. G. de Loues Forgus

Case XXIV.—Æt. 27—fourth pregnancy; after much fatigue, had pain in her left side, followed by nausea, lasting some days, and febrile symptoms. In a little over three months seized by an unsupportable pain in the side—a tumour felt in the belly—general agitation followed by syncope and collapse—death.

Post-mortem.—Much blood in the peritoneal cavity, and a fætus of about the fourth month. Uterus somewhat flattened, and an irregular rent, still bleeding, nearer the longitudinal axis than the Fallopian tube and evary, which could not be found. Death from hemorrhage.—Phil. Med. and Phys. Journ., vol. vii. p. 419, from Mem. dell' I. R. Institut. del Regn. Lombard.

Case XXV.—Mother of several. At fifth month, after a long walk, felt a sudden and severe pain, "as if something had given way within her;" tearing sensation continued; supposed to be colic. Died after several hours.

Post-mortem.—At least four quarts of blood in the peritoneal cavity, and the fœtus and unbroken secundines. A transverse rent from one Fallopian tube to the other; the os impervious. "There was no extenuation at any point of the uterus, nor any appearance of disease."—Dr. Harrison, Am. Journ. Med. Sc., vol. xy. p. 371.

CASE XXVI.—At. 28—good health; first pregnancy: at sixth month, while reaching over a flour barrel, felt something give way, and had pain in the abdomen, where she rested against the barrel, which continued. Ten hours after this she had labour pains; the os partly dilated, and in four hours delivery took place; placenta separated by the hand with difficulty; child alive. Died ninety-eight hours after delivery.

Post-mortem.—Firtid gas escaped from the abdomen; uterus torn at the left extremity of the fundus, above and very near the Fallopian tube; the rent of the peritoneum not over three-fourths of an inch, that of the uterine substance greater. The lining of the uterus elsewhere looked well. Ibid., 1845, p. 177, from Trans.

Coll. Phys. of Philad., 1844. Dr. Bond.

CASE XXVII.—Had flooded in a former pregnancy. Had been tolerably well, when at the seventh month, she had a violent pain in the right side, different from what she had before felt; the pains and hemorrhage had been inconsiderable. Died in four hours.

Post-mortem —The factus enclosed in its membranes escaped into the abdomen.

Ramsbotham's Pract. Observs. Case 84.

CASE XXVIII.—First pregnancy; fourth month, suddenly seized with sickness and vomiting, supposed to be owing to having eaten mackerel. Five hours afterwards her pulse was scarcely felt; her countenance pallid and distressed; hands clammy and cold; pain in the belly; no external flooding, but exhibited symptoms of loss of blood or of lead poisoning." Died six hours after rupture.

Post-mortem.—Uterus rent in the left side; ovum escaped entire; several pounds

of coagula in the abdomen .- Ib. Case 85.

CASE XXIX.—Alt. 36—tenth labour; at about the fifth month, os beginning to dilate; pains feeble; ergot given with no effect. After twelve hours, the pulse became weak, and she was faint. Immediately delivered by the crotchet of a putrid child. Sank on the seventh day.

Post-mortem.—Adhesions of intestines; ovaries soft, and mottled with black; peritoneum raised from the left side of the uterus by coagula, forming a large black tumour; the ragged remains of the anterior part of the cervix seen, which was softened and lacerated; the body of the uterus had lost its elasticity.—Dr.

Marphy, Dab. Journ. Med., vol. xvii. p. 218.

CASE XXX.—Æt. 33—fifth pregnancy; at fourth month, had rupture from a fit of passion, and subsequent violent exertion. Died fourteen hours after supposed rupture, of hemorrhage.—Lond. Lancet, 1828-29, vol. i. p. 33, from Gaz. de Santé, 1821.

Case XXXI.—Mother of six. At beginning of the eighth month, seized with abdominal pains and bilious vomiting; in ten hours watery discharge, with coagula, from the vagina, and eight hours after, was delivered of twins, by natural

efforts. Died about ten hours, from supposed rupture.

Post-mortem.—Some ecchymosis of anterior part, and several transverse rents more or less convex toward the fundus, through the peritoneal coat only, from one and a half to two inches long, as if made by a pen-knife, and one three inches long, and two inches broad.—Mr. Partridge, in Med. Chir. Trans., vol. ix. p. 72, from Churchill's Dis. Fem.

Case XXXII.—Æt. 36—tenth pregnancy; fifth month; pains feeble from the first; os the size of a shilling, relaxed; ergot did not increase their strength. Pulse being quick and feeble, os relaxed; head perforated; fœtus putrid; inflammation set in; death on ninth day.

Post mortem.—Great peritonitis; sero-purulent fluid in the abdomen; a rent in the cervix in front, confined to the muscular substance.—Dr. Collins' Midwifery,

p. 138.

Case XXXIII.—General good health; former labours favourable: sixth child. At seven and a half months, while in the act of stooping, she exclaimed, "My

dear, something has given way in my stomach; did you hear it break?" In one hour was in a state of collapse. Died immediately after the extraction of a dead

Post-mortem.—A rent from fundus to cervix, posteriorly. No disease apparent in its texture; no cause for the rupture, unless a very slight attenuation of the portion lying in contact with several vertebræ.-Merriman's Synopsis, Appendix,

CASE XXXIV .- At fifth month, a retroverted womb filled the pelvic cavity; the fundus burst, and the fortus escaped through the anus. Died. Lond. Med. Repos., vol. xix. p. 207, from Phil. Trans., vol. vii. p. 432.

CASE XXXV.—Æt. 44—mother of twelve; labours always difficult, and premature delivery four times for contracted pelvis. At sixth month, membranes artificially ruptured; thirty hours after, labour came on; arm presented; after delay, delivered by turning; condition good. Twenty four hours after, had a livid, anxious countenance, great pain, vomiting, and almost imperceptible pulse. Died thirty-six hours after delivery.

Past-mortem .- Extensive rent of anterior wall through the cervix, and body and bladder. Substance of the womb thick and pulpy, "evidently the seat of chronic inflammation."-Mr. Favell, Prov. Med. Journ., 1845, p. 117.

CASE XXXVI.—Rupture caused by forcible attempts to dilate the os uteri in an arm presentation at the seventh month. Longitudinal rent of the neck; result not stated .- Dict. des Sc. Méd., vol. xlix., from Baudelocque.

CASE XXXVII .- Æt. 17-between third and fourth month, suddenly seized

with colicky pains, and soon died.

Post-mortem.—Abdominal cavity filled with blood, in which was the fectus. Rent in the right side, from fundus near to the neck. The walls of the right side extremely thin, seeming to be little else than peritoneum, and very friable; the left natural .- Buffalo Med. Journ., 1846, from Am. Journ. Med. Sci., Jan. 1847.

Case XXXVIII.—Fell at the eighth month; first pregnancy; waters escaped; in thirty-six hours pains very strong; os dilated to the size of a shilling, and very rigid; breech presenting. During an examination, felt the cervix tear to the left; result not stated .- Dr. Thompson, in Monthly Journ., 1817.

III.—Cases of Recovery from Rupture at the full term of Pregnancy.

Case XXXIX.—A healthy negress, at 18—first child; os undilated; head pressing violently on the perinaum. Uterus rent from the os, for six inches, toward the fundus; child expelled at the same time. Recovered, and had another child.—Lond. Med. Gaz., vol. iii. p. 219.

Case XI. - Foctus expelled through the anus; patient recovered in seven days .--Lond. Med. Gaz., vol. i. p. 101, from Repert. Med. Chir. di Torini.

CASE XLI .- Æt. 32-mother of two or three; pelvis contracted; had journeyed two hundred miles on foot; presentation natural; labour rapid; head low; birth soon expected. "A gush took place;" the head suddenly retreated, and pains ceased entirely. Complained of a constant "tearing" pain; laboured breathing; dark-coloured vomiting. The os was undilated; a rent in the right side of the body, running from a point at the right side of the cervix toward the fundus; the fætus in the abdomen. The feet were seized, the head being assisted by the lever, after failure of application of forceps, about four hours after rupture. Over two hours hard labour in getting the head through the pelvis. Was well in three weeks .- Mr. Macintyre, Lond. Med. Gaz., vol. vii. p. 9.

CASE XLII .- Æt. 36-slight contraction of the superior strait; previous labours tedious, but safe. Strong labour; fully dilated os; head pressing on the perinaum. During a strong pain, a sudden scream and an exclamation that something had burst. Head receded. Great anxiety; irregular pulse; hiccup; dark-coloured vomiting. Between one and two hours after the inpture, delivery by the feet; very easily accomplished, the uterus affording no resistance; the feetus lay in the abdomen. Recovered .- Mr. Parkinson, Lond. Med. Gaz., vol. vii. p. 174.

Case XLIII .- At. 28-third labour; strong and healthy. Two months previous

had a fall, and afterward complained of pain in right iliac region. Very severe labour; breech presentation; rupture after the breech and half the trunk had passed the vulva. Delivered, after some delay, by traction on the trunk, with some difficulty; placenta artificially removed, part left behind; a good deal of hemorrhage; hernia of the intestines. Left her bed for the first time in about two months.—Mr. Currie, ibid., vol. xvii. p. 854.

Case XLIV.—At. 25—mother of two children; shoulder presentation; first seen after rupture; version was impracticable; thorax perforated; delivered with little difficulty. Extensive rent behind at the junction of the cervix. Discharged cured in twenty-three days.—Dr. Collins, in Dub. Med. Trans., and in Treatise.

Case XIV.—Æt. 30—sixth child; had been in labour seven hours; pains brisk; rupture occurred unexpectedly, when child was about being expelled. Perforator and crotchet at once employed; the uterus strongly assisted the expulsion. Very extensive rent posteriorly, and hernia of the intestines. Discharged on thirty-second day, cured. Afterward had two children; with the first, premature labour induced.—*lbid*.

Case XLVI.—A rent in the cervix, vagina, and perinœum, caused by dragging with forceps a horribly mutilated focus through a pelvis which was "ascertained to be too narrow to admit the transit of a living focus." She "escaped" with these lacerations.—Reported by Dr. Campbell, Lond. Lancet, 1828-29, vol. i. p. 34.

Case XIVII.—At. 36—mother of several; previous labours easy; pains moderate at first, and suddenly, after about five hours, bearing down almost entirely ceased. From one to two hours after rupture, the pulse was rapid and indistinct; countenance anxious; exeruciating pain in the abdomen, and a slight oozing of blood, per vaginam. Prompt delivery resolved on; head at the brim of the pelvis; after a fruitless trial of long forceps for one half hour, they slipped. The perforator then used, and the fætus found hydrocephalic; delivery at once finished; two pounds of coagula removed. A rent from the cervix, posteriorly up into the body of the womb, as far as the finger could reach; great prostration followed, but she recovered.—Dr. Campbell, Edin. Med. and Surg. Journ., 1828, p. 328.

CASE XLVIII.—A stout young woman; rupture in severe labour, which lasted thirty hours. Nearly four feet of intestines protruded through the rent, and sloughed off on the sixth day; faces voided per vaginam for two years, when they took the natural channel. Eighteen months after this she conceived, and had a living child.—Lancet, 1828-29, vol. i. p. 35, from Dr. McKeever's work.

CASE XLIX. (a).—Operated on twice successfully by gastrotomy, after rupture and escape of the fectus. The second time the fectus lived half an hour after its extraction.—Ibid., from Pathol. Chirurg., vol. ii.

Case L.—Æt. 33—feeble; fourth pregnancy; fell two weeks before labour. A transverse rupture of the fundus took place; fetus escaped. Gastrotomy twelve hours after rupture; child dead. Liquor amnii and blood in the abdomen, the intestines inflamed. Cured in about one month.—Quart. Journ., 1819-20, p. 226, from M. Bernard, &c., in Journ. Compl. de Dict. des Sc. Méd., 1819.

Case II.—At. 30—very weak; partial prolapsus. First stage natural, contractions very powerful; os dilated to half an inch, and the head in the pelvic cavity, when suddenly, during a pain, the lower part of the uterus prolapsed. A large, fleshy, cylindrical mass, six inches long, and two and a half in diameter, occupied the vagina. The head being engaged in the inferior strait, the os dilated to an inch, the forceps were applied, and the cylinder began to burst; forceps withdrawn; child expelled. The rent did not seem to pass through the uterine walls; uterus was returned into the pelvis. Recovered.—Lond. Lancet, 1828-29, vol. i. p. 647, from Siebold, Journ. für Geburtsk.

Case IAL.— At. 20—in ninth month; suddenly fainted, and had intense pain in the abdomen, with very strong movements of the fætus, for twenty-four hours. Pains in the hypogastric region continued intense for four weeks. Fætus discharged piecemeal through the abdomen and the vagina; recovered after several months.—Lancet, 1841-42, vol. i. p. 97, from M. Richter, in Austrian Med. Weekty Writ.

CASE LIII .- Previous labours favourable but the last, all the children living.

Pains had ceased for some time; patient pallid, and looked very ill; no hemorrhage; head had somewhat receded; child could be felt in the abdomen; shock of the rupture less than usual; delivered by forceps without the least difficulty. A large rent in left side, with hernia of the bowels. Recovered.—Dr. Murphy, Dub. Med. Journ., vol. xv. p. 489.

Case LIV.—Was suddenly alarmed by report of a pistol, and felt an extraordinary sensation. A few hours afterwards, voided blood in her urine. Twenty-eight hours after, profuse hemorrhage came on; the os being undilated. About thirty-two hours after rupture a horizontal rent in the posterior parietes of the uterus being ascertained, she was delivered by version. Recovered in a few weeks. Good constitution, and her mind was particularly tranquil. Dr. Ingleby, Lond. Lancet, 1839-40, vol. i. p. 635.

Case LV.—Æt. 24—infirmary patient; low stature; deformity of extremities; about 12 hours after the beginning of labour rupture took place, the os being the size of a crown-piece, after violent pains, which were succeeded by excruciating pain in the belly. Forus escaped into the abdomen. About 15 hours after rupture, delivery by turning and perforation. Rent along the whole course of the right side, including the cervix. Well in about two months.—Mr. Powell, in Med. Chir. Trans., vol. xii. p. 528.

Case LVI — A.E. 29—delicate; mother of three; the last labour tedious; pelvis under average; pains strong and frequent; os dilated. Within twenty-four hours from the first of the labour, a most violent pain came on, succeeded at once by vomiting and exhaustion, and pains gradually ceased. About three hours after rupture, there being constant pain, extreme tenderness and prostration, the perforator was tried; the head retreated; version and perforation behind the ear; nates and trunk delivered not without considerable difficulty; hernia of the bowels. In seven weeks was about the house, and afterward menstruated regularly.—Mr. Birch, Med. Chir. Trans., vol. xiii. p. 361.

Case LVII.—Æt. 40—stout, healthy, well made; mother of nine; the last labour protracted, with sloughing of the vagina and bladder; pains sharp, severe and quick; rupture about seven hours after labour begun. The os was adherent to the vagina under the pubis, and near the size of a crown-piece, and undilatable. Had a pain as if "a sword had been thrust through her;" profuse hemorrhage; pains ceased. Between one and two hours after rupture, the os was incised, and version performed, and perforation behind the ear. A rent of three inches across the posterior wall; the edges extremely thin; well in about one month.—Dr. Smith, ibid., p. 373.

Case LVIII.—Æt. 32—mother of six; always had difficult labour; pelvis narrow. At full time pains strong; waters discharged; labour progressed slowly. After a while the head was easily reached; pains gone; limbs of the fœtus obscurely felt in the abdoomen; fætal heart inaudible: face flushed; eyes bright; great thirst; vomiting and frequent cough; increased heat of skin; clammy sweat; pulse 95, hard and full. After eight hours more, symptoms the same; the pulse 100; the fœtus easily felt through the abdominal walls; the head risen above the brim and beyond reach. Gastrotomy; child dead. In six weeks perfectly cured.—Ranking's Abstract, vol. ii. No. 1, from La Nouv. Encyclo. Sci. Med., Jan. 1846, p. 70. Dr. Kuhne de Thever.

CASE LIX.—Æt. 24—fœtus required extraction by version. After removal of the placenta a rupture of the womb discovered, with hernia of the bowels; bowels returned, and kept up by a sponge. Recovery.—Ibid., from Caspar's Wöchenschr., 1845.

Case I.X.—Æt. 38; mother of six; suffered severe pain in the lower part of the abdomen for last six months. Labour favourable for twelve hours, then sudden prostration; head receded when forceps applied; delivered by crotchet; rent at anterior part of the cervix. Well in one month.—Dr. Mitchell, Dub. Med. Journ., vol. xxii. 1843, p. 339.

Case LXI.—Gastrotomy three hours after rupture: menstruated in six months afterward.—Brit. and For. Rev., 1844, from Bulletin de l'Acad. Roy. de Méd., Sept. 1843.

Case LXII.—Æt. 44—mother of five; ninth month. Labour commenced; while standing up became faint, and vomited; had a sense of laceration, and a feeling as if there were two children in the abdomen; abdomen swelled; vomiting continued; breathing irregular; os undilated. Two hours after rupture, gastrotomy performed; child extracted alive. Recovered in forty days.—Dr. Frank, Omodci Annali, Gennajo, 1825, in Anderson's Quart Journ., vol. ii. p. 661.

Case LXIII.—A.t. 33—eleventh child; has projection of the sacrum; the anteroposterior diameter of the brim being from two and a half to three inches. Ergot was given as in former labours; pains became violent; rupture when in labour ten hours; hemorrhage; the pains at once ceased. Turning about nine hours after rupture; the head assisted by the crotchet; the child and placenta were in the abdomen; the fundus contracted, and the body flaceid. Rent on the right side extending over in front obliquely to the left, of about three inches. Recovered in four weeks.—Dr. Hendric, Am. Journ. Med. Sci., vol. vi. p. 35.

Case LXIV.—Fourth pregnancy; at full term; after thirty hours of frequent and strong pains, she experienced an extraordinary sensation, and delivery did not take place, although the pains continued. Two months after this the firtus escaped through several ulcerations in the walls of the abdomen, and after some months was well.—Dict. des Sci. Méd., vol. xlix. p. 240, from Hist. de la Soc. Roy. de Méd. Journ., i. p. 308.

Case LXV.—Rupture; delivery by version; recovery, and subsequently became pregnant.—Ibid., p. 245, from Dr. Douglas.

Case LXVI.—Rupture; delivery by version; rent felt by the hand employed. Recovered.—Ibid., from Gaz. de Méd. for 1778.

Case LXVII.—Rupture caused by a violent blow over the uterus; the child lay in the left side of the abdomen, and was "extracted." Recovered, and had another child.—Bid., p. 245, from Commentaries of Leipsic.

Cases LXVIII., LXIX.—At the commencement of labour rupture took place; everything announced the escape of the fætus into the peritoneal cavity. She had suffered a very severe pain, and felt something tear; the fætus mounted high in the belly and moved actively. After a while the motions ceased, and soon a sensation of all pains; prominence of the belly very manifest. The womb was separated in great part from the vagina, and hernia of the bowels; no hemorrhage or other unfavourable symptom; child and placenta extracted with facility. The abdomen swelled on the second or third day; some vomiting; lochia scanty. Recovered. Two years afterward rupture occurred again; the head had not escaped from the pelvis; delivered by forceps. Recovered—both children dead.—Ibid., from Duncan's Annals, 1798.

Case LXX.—A woman of Toulouse had rupture during the pains of a very tedious labour. Fortus passed into the abdomen, and remained for twenty-five years. After her death the fortus found invested in false membranes, and the rent by which it had escaped was distinctly visible.—Ibid., p. 247, from Bayle.

Case LXXI (a).—Womb ruptured towards the end of labour, and the fectus passed into the abdomen. The bones passed away per anum. Recovered.—Ibid., from Mem. Acad. Sci., 1720.

Case LXXII.—About twenty-two years after its supposed escape into the abdomen, the fectus escaped per anum.—Ibid., from Percival.

Case LXXIII.—Rupture and escape of the fætus into the abdomen. Became pregnant a second time, extra uterine, at the end of seven years, during which time the fætus was in the abdomen. At the end of twenty-one years she began to void the bones of both per vaginam; the discharge continued during eighteen years.—Ibid, from Underwood.

Cases LXXIV., LXXV., LXXVI., LXXVII.—Bartholeu cites two cases in which the fictus escaped by ulcerations in the abdomen, and two by the intestines, of which three recovered.—*Ibid*.

CASE LXXVIII.—Thérèse Allard had rupture, October, 1776, and four months after, the child was removed by a great incision, she being in great danger from the effects of putrefaction.—Ibid.

CASE LXXIX.—Perceiving a faintness succeed a violent movement, when a long time in labour, the surgeon, on examining, could no longer feel the fætus. Gastrotomy; mother and child saved.—Ibid., p. 249, from Mem. de la Soc. Roy. de Méd.

CASE LXXX.—Wife of a carman; child escaped into the peritoneal cavity; preparations made for gastrotomy, but it was resolved first to attempt delivery by the natural passages. The flaccidity of the lips of the rent, and the favourable position of the feet, permitted delivery, which was accomplished with as great facility as usual.—Ibid., p. 253. M.M. Gardien, Descaux, &c.

Case LXXXI.—Third labour; at full term. On the escape of the waters the os was scarcely opened; pains came on; head presented. In a few hours everything promised speedy delivery, when she complained of a singularly acute pain of but short continuance, in the superior and lateral part of the abdomen, after which the firths and placenta escaped. Gastrotomy at once practised, and occupied only four minutes; the child was dead; considerable blood in the bas ventre; recovery favourable; cure complete on the thirtieth day.—Heister's Surg., tom. v., from M. Thibault, in Journ. de Méd., 1768.

Cases LXXXII., LXXXIII.—Wife of a vine-dresser; rupture and gastrotomy at the end of eighteen hours; child dead; a gaugrenous abscess formed in the hypogastric region; but she was at work in the field in six weeks. At the end of nine years again pregnant, and had rupture of the womb, the fætus escaping entirely into the abdomen. Gastrotomy again, only waiting for the administration of the sacrament, two hours or more. Infant gave signs of life for half an hour after the operation. The woman subsequently had a child naturally.—Dict. des Sc. Méd, xlix. p. 255, from M. Lambron, Observ. Communiquée à l'Acad. de Chirurg.

Case LXXXIV.—Mr. Dumay resorted to gastrotomy in a case of rupture, and on the thirtieth day the wound was the size of a two sous piece.—*Ibid.*, from *Baudelocque*, *Recherches sur l'Operation Césarienne*, p. 38.

CASE LXXXV.—A poor woman fell from a cart, in consequence of which the uterus was ruptured, and the child passed into the peritoneal cavity; bones of the pelvis so mashed as not to allow of delivery. Gastrotomy was performed. Recovered. Dewees' Essay, in Phil. Med. and Phys. Journ., vol. i. p. 77, from MS. Lectures of J. Hamilton.

Case LXXXVI.—Had several children; full time; labour slow at first, but pains became more violent, and during one, felt something crack within her. Pains ceased; became faint; pulse intermittent. Apparently quite torn; she was delivered; the child small, very healthy and lively. One side of the uterus burst so wide as to admit the land.—Ibid., from Burton's Syst. Midwif., p. 110.

Case LXXXVII.—At. 21—at full term had very violent pains continuing three weeks. About six months after, she discharged from a small rent at the navel, near four gallons of water, with some "fleshy strings and small bones." The opening was dilated, and the bones of two fœtuses extracted; menstruated two months after, and was pregnant five months after, and six times since.—Ib., p. 82, from Med. Comment., Amer. cdit., vol. i. p. 103. Dr. Bell.

CASE LXXXVIII.—Exostosis of the pelvis; rupture; gastrotomy; mother and child saved.—M. Castelli, Archives Gén., vol. 1xiii., 1845, from Repert. Acad. Roy. de Méd.

CASE LXXXIX.—Æt. 38—mother of three; previous labours severe. Deformed pelvis from too great inclination of the superior strait. Pains came on upon the 27th, waters broke on the 28th, and os dilated on the 29th; no signs of danger; sudden indefinable sensation in the abdomen, with change of its form, and the fretal limbs could be felt. Expulsive pains ceased; collapse; some hemorrhage. Turning easily done, the head being assisted by the forceps; rent felt by the hand during version. Recovered in a month.—Gaz. Méd., 1845, p. 311, M. Colson.

CASE XC.—Æt. 37—mother of seven; two labours tedious; the rest natural; sacrum prominent. Five months before fell back in a chair, but was well after it. Pains very frequent and strong, and after twelve hours, membranes were artificially ruptured. In a very strong pain she had a peculiar feeling in the abdomen, and suddenly cried out that something had burst within her; collapse

ensued. Turning immediately, the head being assisted by the lever. Rent transverse; an internal abscess burst per anum, and she recovered. Fifteen months after, again confined.—Edin. Med. and Surg. Journ., July, 1833, p. 72. John Dunn.

Case XCI.—Æt. 30—mother of six still-born; each labour long and painful; children born alive; diameter of brim scarce three inches. Great ædema of anterior lip of uterus; belly prominent; for eighteen hours the pains were of little strength; then excessive cramps came on, and vomiting, the head being at the brim. Labour lasted thirty-five hours. Fearing rupture, the head was perforated; delivery occupied two hours. A rent of two to three inches in the posterior part of the neck, apparently not involving the peritoneum. Recovered.—Mr. Robertson, Ibid., for 1834, p. 51.

CASE XCII.— A.t. 35—eighth pregnancy; previous labours hard; pelvis "under the standard dimensions." After six hours' labour, the pains having become very severe, rupture took place; there were hemorrhage, extreme tenderness, sense of sinking, and hurried breathing; fietus and placenta escaped into the abdomen through a rent in the left side, somewhat behind. Delivered by version. Recovered, and became pregnant.—Ibid, from Mr. Stephens.

CASE XCIII.—Act. 28—brim not over three inches in its short diameter; had been in labour forty hours; pains incessant; great suffering; perforation; the base of the skull with some difficulty drawn into the pelvis; cervix ruptured posteriorly for two inches, both longitudinally and transverse. Was well in eight weeks.— *Ibid.*, p. 55.

CASE XCIV.—Æt. 37—small; antero-posterior diameter of brim two and three-fourths inches; first delivery was by perforation. After twelve hours of continued strong pains, the os dilating well, the pains ceased suddenly; had a sense of stabbing in the belly, which lest its form; the head retreated; no alarming symptoms at the time. Next day, the skin was cold; pulse feeble, 85 to 90; intestines felt at the brim; placenta and membranes and fætus in the peritoneal cavity. Twenty-three hours after rupture, gastrotomy performed; occupied not over five minutes; expressed herself much relieved at once. A longitudinal rent of the left side. In one mouth menstruation was established.—Arch. Gén., vol. xxxviii. p. 506, from Allgem. Med. Zeitung, 1833. Dr. Molitor.

Case XCV.—Æt. 35—healthy; eleventh child. After several hours, the os dilated; head pressing on the perinæum; had acute pains; became restless and anxious; cold sweats; nausea; and violent liquid purging. After some time, the head found receded; rupture not discovered till it was considered too late for delivery. During a few weeks the fætus passed partly by the vagina, and partly removed by an incision in the abdomen. In about ten weeks perfectly well.—Lond. Med. Repos., vol. viii. p. 110. Mr. Brock.

CASE XCVI.—A. 22—second child; full time; previous labours of great suffering, and instrumental. Pains powerful and frequent; no dilatation; had been so for several hours. Suddenly the fætus was forced through the anus, and fell on the floor. Rent through the posterior part of the uterus into the rectum; the os a firm cartilaginous ring. Recovered.—Bid., vol. xix. p. 206. Mr. Gaitskill.

Case XCVII.—Æt. 33—pelvis roomy; after considerable bodily exertion, membranes suddenly burst, and two days after labour came on. After twelve hours more, the head low in the pelvis, suddenly cried out something had burst, followed at once by hemorrhage and vomiting and excessive pain, with cessation of uterine contractions; the head receded. Forceps applied after seven hours, and slipped, and the fetus escaped into the abdomen; version was effected with some delay; rallied immediately after delivery; rent transverse above the pubis. Recovered.—Hamilton's Select Cases, Edin., 1795, p. 138. (Since Hamilton, in his Pract. Observations, in 1836, remarks that he had met with but one instance of recovery, this case must be the one quoted by Dowees, in the essay sup. cit. from Hamilton's MS. lectures, where he says it was "a case in which almost every circumstance was unlavourable," for, on bringing the child through the lacerated parts, he telt it tear more; she had children afterwards.)

CASE XCVIII .- Æt. 36-primipara; pains very strong, and increasing for the

first seventeen hours; os partially dilated; head in the polvis, but not progressing; seized with exeruciating pain, gave a loud shriek, and fell asleep. Awakened after a quarter of an hour, with brown vomiting, and was plainly sinking. At once delivered by forceps in a short time; child saved; well in three weeks.—Mr. Huden, Trans. Soc. Lond., for Med. and Chir. Improvement, vol. i. p. 184.

CASE XCIX.—Æt. 39—strong and healthy, but lately weakened by peripneumonia; pelvis narrow; fifth labour; after the escape of the waters, was very resless and irritable, with great anxiety for a few hours. During the last pain felt something slip out of its place. Vomiting ensued and quick pulse; duration of labour presumed less than six hours. In apparently less than three hours, the perforator was used; it slipped, and version resorted to, followed by perforation. Got well.—Lond. Med. and Phys. Journ., vol. xix.

CASE C.—Mother of seven; when one hour in labour she gave a piereing cry; pain in the right side; face pallid and sunken; pulse depressed; head retreated; turning easy; hernia of the bowels. Cured in fifteen days.—Dubois, from Chailly, Amer. Trans., p. 267.

Case CI.—Arm presentation; rupture; turning accomplished with great difficulty; hernia of the bowels; extensive rupture of the cervix. Recovered.— Burn's Midwifery, p. 480, from Trans. Phys. Dub., vol. ii. p. 15.

Case CII.—Contracted pelvis; rupture; child escaped; uterus contracted; turning; a large transverse rent opposite the bladder. Recovered in a few weeks.—Castle's Blandell, p. 704.

Case CIII.—Robust; became pregnant after a fracture of the pelvis, producing contraction; rupture; gastrotomy; only the muscular substance was torn; the peritoneum divided by the scalpel. About work in two or three weeks.—Mr. Barlow, in ibid., p. 705.

Case CIV.—Primipara; delivered by craniotomy after a very lingering labour; placenta adherent, and on introducing the hand seven and a half hours after, it passed through a rent in the back of the vagina or cervix into the abdomen; placenta separated; a very fixed discharge; eventually recovered.—Ramsbotham's Process of Parturition, note to p. 421.

Case CV.—Eight days after rupture, the foctus was sought for in the abdomen, through a rent at a point between the neck and the body of the uterus; it was small, flabby, extensible, but complete; gas escaped with noise and at intervals; moderate fever lasted some days, but the peritonitis diminished; a mucons discharge, and pains about the kidneys continued. Entered the hospital July 6th, the tenth day of labour, and left cured on the 15th.—Mad. Lachapelle. See Man. des Accouch. etc., par J. Jacquemier, tom. ii. p. 299.

Case CVI.—Æt. 36—in labour thirty-nine hours, with a very rigid os; pains intensely violent; felt something snap, and a noise heard by an attendant; pains suddenly ceased; collapse; delivered by the vectis. Among the coagula, the portion of the uterus containing the os, and an irregular part of the cervix surrounding it, were found. For three weeks a continuous cavity between the uterus and vagina. Recovered.—Med. Chir. Trans., vol. ii. Mr. Scott.

CASE CVII.--Sixth child; labour of seven hours; ten hours after delivery, two-thirds of the labia of the os protruded from the vulva: this was separated by torsion, and the whole filled the cervix. Recovered.--Dr. Kennedy, Dub. Journ., vol. xvi. p. 154.

Case CVIII.—Primipara; labour tedious from congested and undilated os; pelvis rather under-sized; posterior lip separated, and was removed. Recovery tedious.—Ibid.

Case CIX.—Os undilatable, after many hours of labour, after a violent pain, the circle of the cervix was torn off, and the head expelled.—Mr. Carmichael, Ibid., p. 54.

CASE CX.—Antero-posterior diameter of the pelvis somewhat contracted. In two labours delivered by forceps; in the third she felt something give way, and version was resorted to: eventually the trunk was removed, and gastrotomy practised, in order to remove the child's head. A slight rent was found in the

uterns; this was enlarged, and the head delivered. Recovered. For further particulars see case CCLL.—Am. Journ. Med. Sci., Oct. 1843, p. 365, reported by Dr. Bowman.

Case CXI.—After two or three days of pain, the os uteri considerably dilated, and labour progressing, when two or three gallons of water escaped. After this she suffered extremely; belly swollen and painful; pulse quick and feeble, &c. After several hours ergot was given, with no effect. After some hours these symptoms were relieved, and the head could be felt in the abdomen. On the twelfth day offensive discharges from the vagina; fourteen months afterward was feeble, in bad health, and discharged bones, &c., per vaginam. At the end of about seventeen months a fistulous opening found in the abdomen; at the end of twenty-one months the bones of the cranium, &c., removed by an incision. At the end of two years was quite well.—Dr. Toy, ibid., vol. vi. p. 33.

CASE CXII.—Æt. 37—good health and constitution; mother of seven; waters escaped for forty-eight hours; pains short and violent; after an attempt to return the hand, which descended by the head, the womb uptured; extreme prostration; head receded. Forceps tried and failed; then version; feet and breech in the belly; rent transverse to the right, four or five inches long. Recovered; and in five weeks was about the house.—Dr. Guernsey, N. Y. Annalist, Oct. 1846, p. 37.

Case CXIII.—At. about 30—mother of several; dangerous hemorrhage; os the size of a crown-piece, and very thin. "When stretching the os, which felt thin and rigid like a piece of parchiment, the woman shrunk from the side of the bed, which obliged me to dilate with more force than I intended," when the os was felt to tear at the side, and allow the hand to pass; delivered; child lived. Recovered.—Smellie's Works, vol iii. p. 139.

Case CXIV.—Distorted pelvis; second child; after the birth of the child, the vagina found torn from the right side of the os for two or three fingers' breadth, and the os a little torn. Recovered; delivered again, and a large gap or chasm then detected at the side of the os.—Ibid., p. 383.

Case CXV.—After pains, which continued during three days, two loud cracks were heard, as if the rafters had broken, and the belly was rent from near the navel obliquely downward; child and placenta expelled through it; the intestines seen. Recovered.—A. Monroc, Scn., in New Edin. Essays, vol. ii. p. 338, in Dub. Med. Journ., vol. xxvi. p. 492.

Case CXVI.—At. 32—second child; never had any uterine disease; when in labour twenty-two hours, during a strong pain, felt something suddenly give way within her, seeming as if her bowels had been torn. A calm succeeded; two hours after, pulse small and thready; respiration slow and regular; acute pain in the belly, and a sense of a rolling, crushing weight there; limbs of the fætus easily felt, and grasped through the parietes; strength failing, she was, after a little over two hours, delivered by forceps; child lived a few minutes. A rent in the fundus admitted the hand; hernia of the bowels; a knuckle of the gut was reduced the second day. Recovered.—Dr. Robiquet, in Amules de la Soc. de Méd. de Gand., quoted from Journ. de Méd. et Chirurg., July 1846, in Am. Journ. Med. Sci., April, 1847.

Case CXVII.—Four years after rupture a gangrenous abscess formed, which was opened, and a part of the fætus withdrawn, part having been already evacuated by the bowels.—Dict. des Sci. Méd., vol. xlix., by Cornac of Vienna.

IV. Cases of Rupture at Full Term proving fatal.

CASE CXVIII.—Contracted pelvis; in three labours perforation required. At about the seventh and a half month, fifth pregnancy; delivery brought on by piercing the membranes; rupture; head escaped into the abdomen; 'turning and perforation behind the ear. Died.—Lond. Med. Gaz., vol. iii. p. 32. Mr. Doubleday.

CASE. CXIX.—Æt. 43—eleventh child; contracted pelvis; previous labours severe and dangerous. Pains unusually severe; in a terrible pain the uterus burst, and a sound was heard by the attendants. Died in two hours.

Post-mortem.-Rent from cervix to fundus.-Ibid., vol. v. p. 522. Mr. Spackman.

Case CXX.—Æt. 28—fifth child; mombranes ruptured; head presented; faint pain and cramp in the side. Died in less than one hour from the rupture, undelivered.

Post-mortem.—Two quarts of bloody serum in the pelvis; head firmly impacted; parietes of the uterus remarkably thin at the rupture.—Ibid., vol. viii. p. 304. Dr. Smith.

Case CXXI.—Æt. 40—eleventh child; for two weeks had severe pain in the lower part of the abdomen, with tendency to sickness; pains tolerably strong; duration eight or nine hours; no physician called for an hour and a half after rupture. Died undelivered in less than two hours.

Post-mortem.—Two rents; that portion of the uterus thinner than the rest, and evidently in a morbid condition; patches of lymph between the peritoneum and muscular fibres; firstus within the uterus.—Ibid., vol. xxii. p. 375. Mr. Reid.

CASE CXXII.—Æt. 32—stout and healthy, and had five children. Had a favourable labour; the head nearly resting on the perincum. On the discharge of the waters the pains ceased, and delivery was soon required; but no positive signs of rupture, or premonitory symptoms; forceps tried and failed; delivered in a few minutes by perforation, somewhat less than two hours after rupture. Died about two hours after rupture.

Post-mortew.—Two pounds of dark coagula in the abdomen; a longitudinal rent of four inches in the posterior part; coats of the uterus healthy, but destitute of blood.—Ibid., vol. xxvi. p. 347. Dr. John Jackson.

CASE CXXIII.—Æt. 21—healthy looking; former labours easy; pelvis sufficiently roomy; os dilated; pains lively, not violent; face to the pubis; waters escaped; head gradually advancing, and a prospect of a safe delivery; a sudden scream, and complaint of a peculiar excruciating pain; pains soon ceased; rupture evident; duration of labour about ten hours; perforation at once; delivered with little difficulty. Died eleven days from rupture.

Post mortem.—Rent two and a half inches in the anterior part; inner surface of the womb mottled by greenish patches; uterus thinned at the place of the rent. Presumed cause of rupture, partial atrophy of the uterus.—Dub. Med. Journ., vol. vii. p. 209. Dr. Marphy.

CASE CXXIV.—Æ: 36—delicate; eleventh labour; seven premature, three alive; pelvis undersized, but not irregular; no unusual sharpness of the brim. Labour at first natural; three hours and more before rupture, the pains became weak; an hour and a half after the escape of the waters, a sudden lancinating pain, "as if a sword had passed through her groin." Rupture soon evident; head between the ischia; duration of labour about nine hours. Forceps tried and failed; perforator; child slowly removed; the uterus assisting the breech and lower extremities. Died on the eighth day.

CASE CXXV.—Had one living and one still-born child; sacrum prominent; antero-posterior diameter of the brim not over three and a half inches. Strong, steady pains after the escape of the waters; head fixed at the brim, and the uterus felt hard as if spasmodically contracted; felt something give way, and pains became mere spasms; no discharge from the vagina. Delivered by crotchet, apparently soon, "with much difficulty," "the uterus affording no assistance." Did not recover from the shock. Died thirty hours after delivery. Duration of labour fourteen hours.

Post-mortem.—A circular opening in the cervix opposite the sacral promontory; and a patch reaching into the body of the womb, much thinned.—*Ibid.*, p. 213.

CASE CXXVI.—At. 36—tenth labour; five still-born; ischia closer than natural; antero-posterior of the brim four and a half inches. The os soft—head almost arrested between the ischia during four hours before symptoms of exhaustion required delivery—duration of the labour not over twelve hours. Crotehet—child large—the iterus assisting the body and legs—uterus well contracted. Sank and died in apparently less than thirty hours.

Post-mortem .- Some shreds of lymph partly adherent, and part swimming in bloody serum about the cervix. A circular opening posteriorly, near the size of a half crown; cervix thin, not softened; body of the uterus had a soft doughy feel; no unusual prominence of the sacrum.-Ibid., p. 214.

Case CXXVII.—Æt. 30—fifth child; face presentation; natural labour and delivery; rupture unsuspected. Died of peritonitis on the sixth day.

Post-mortem.-Blood and serum in the abdomen; peritoneum of the uterus thickened; rent of three inches in the left side, exposing a cavity in the fibrous structure of the uterus communicating with the lining membrane, by three openings-coagula around and within it.-Ibid., p. 219.

CASE CXXVIII .- At. 26-sixth child; the first delivered by the crotchet; the third, forced delivery; the second, fourth and fifth, natural. Antero-posterior diameter of the brim three and a half inches. Labour strong; os nearly fully dilated; head resting on the pubis; without any sudden exclamation or complaint, the pains went off; pulse became weak; countenance anxious; respiration laboured; dark-coloured vomiting. Perforation at once; the uterus assisting the body and limbs. Died of peritonitis on the third day.

Post-mortem .- Intestines, and peritoneum of the uterus, highly vascular. Rent in the peritoneum of two and a half inches in the anterior part of the cervix, where was softening, and a cavity in the substance opening through the rent into the abdomen; at the rent the peritoneum raised, and lying loose between the womb and bladder; fundus soft and doughy; fibrous structure easily peeled off.-

Ibid., p. 220.

CASE CXXIX - AEt. 30-first child. Delivery required by her situation when

admitted. Died twenty-four hours after delivery.

Post-mortem .- Uterus rent at the anterior part of the cervix close to the vagina, in a portion which was of a dusky green, and softened-of which there was a broad patch embracing the entire thickness of the walls. The peritoneum was raised in one place by coagula beneath.-Ibid., p. 221.

CASE CXXX.-When in labour some hours, a powerful dose of ergot was given by a midwife without regard to the os, which was extremely rigid. Uterine action was most violent; after some time prostration ensued, and she very soon

Post-morten.—A large transverse rent posteriorly, and at the neck; the foctus and a few ounces of blood in the abdomen .- Lond. Med. Gaz., vol. xxvii. p. 372.

Mr. Coward.

CASE CXXXI.—Æt. 40-not very strong; tenth pregnancy; repeated losses of blood from placenta prævia. When the child was half-delivered by version, the uterus ruptured. Duration of labour about twenty-four hours; died soon. No post-mortem, but the uterus was as thin as paper.—Lond. Lancet, 1827-8, vol. ii. p. 110.

CASE CXXXII.—Delivered by natural efforts; child born alive. Patient died from flooding.

Post-mortem.-A longitudinal rent in the side. Dr. Blundell .- Lond. Lancet,

1828-9, vol. ii. p. 384.

CASES CXXXIII., CXXXIV., CXXXV.-One died thirty-six hours after rupture, with a laceration in the posterior part of a hand's breadth. The second died at the end of thirty-eight hours. The third died in less than twelve hours; the child escaped into the belly; rent in front.—Ibid.

CASE CXXXVI.-Pelvis greatly distorted; Doctor found she had bled profusely: was restless; had weak intermitting pulse; no vomiting; nterus extremely relaxed; the child in the abdomen. Turning; considerable difficulty in extricating the shoulders and head. Survived delivery but a few minutes.—Lond. Lancet, 1831-2, vol. i. p. 830. Mr. Wisbey.

CASE CXXXVII.-Exostosis of one of the pelvic bones; hydrocephalic fortus; labour had been suffered to continue for many hours. Rupture; died without any attempt to extract the fætus.

Post-morten .- Several rents; an extensive one in the body, through which the

whole fictus, except the head, had escaped.—Dr. Campbell. Lond. Lancet, 1828-9, vol. i. p. 35.

CASE CXXXVIII.—Third labour; narrow pelvis. Duration of labour thirty-three hours; lived nine hours after rupture; died undelivered.

Post-mortem.—Very extensive rent in the anterior part of the body of the womb, through which almost the whole of a pretty large male fætus had passed; the fundus well contracted; head impacted firmly.—Ibid., p. 35.

Case CXXXIX—Fifth pregnancy; full time; had dull and continued pain in the abdomen; waters escaped, and uterine action was very much abated. At the end of three hours, gave three ordinary doses of ergot; action increased in a small degree for one and a half hours, when the vectis was used, but failed; focus then considered hydrocephalic; head suddenly receded, and pains at once ceased; sinking came on; rupture had taken place, and the fætus had escaped into the belly, and could be felt there. Apparently soon, the uterus was found permanently contracted, admitting but two fingers; patient exhausted, and but few hopes could be entertained of recovery. Gastrotomy—this occupied thirty seconds, without the loss of a teaspoonful of blood; patient expressed herself greatly relieved, and passed a good night. Died eight hours after delivery.

Post-mortem.—Uterus healthy, except near the laceration in the posterior wall, where it was completely altered and softened in its texture, owing to chronic inflammation; fotal head of monstrous size.—Mr. Lord, in Lond. Lancet, 1828-9,

vol. p. 310.

CASE CXL.—After violent pain in the bowels, uterine pains suddenly ceased, and the feetus was felt beneath the integuments. Rupture from natural effort of the womb; pulse quickened; less anxiety of face than was to be expected. Turning, over six hours afterwards; fœtus entirely in the abdomen. Died about eighteen hours after rupture.

Post-mortem.—Intestines glued with lymph, and a layer formed for isolating the fextus.—Mr. Spilsbury. Lond. Lancet, 1834-5, vol. i. p. 125.

CASE CXLI.—Strong and healthy; at. 32; tenth pregnancy; sacrum very prominent. After being five hours in regular active labour, pains suddenly ceased for twelve hours. Midwife gave ergot, and in a few hours pains returned, and the woman suddenly exclaimed that something had burst; hernia of the bowels; fectus "too high up" to be delivered by the feet, and was brought down by the blunt hook; died in a few hours after delivery.

Post-mortem.—Uterus healthy; muscular fibre very firm; rent posterior from the

fundus to the os .- Lond. Lancel, 1836-7, vol. i. p. 824. Mr. Hooper.

Case CXLII.—Æt. 30—robust; pelvis well formed; had one living child. Had been in labour four days without symptoms of rupture or peritonitis. After blood-letting, "we endeavoured to apply the forceps the whole afternoon, but without effect." Died undelivered about five days from the commencement of labor.—Mr. Blythman. Lond. Lancet, 1841-2, vol. i. p. 29.

Case CXLIII.—Æt. 36—robust and healthy; labours always severe and lingering, but not instrumental. After being several hours in favourable labour, pains increasing, and the head descending, during an ordinary pain, the countenance changed; felt a sense of suffocation; pulse quick and tremulous. After one hour the head had not receded, but the fætus was felt through the parietes. On attempting to perforate, the head receded; version, over an hour after rupture; delivery "soon accomplished." Rent in anterior part. Died thirty-four hours after delivery.—Mr. Tovcy. Ibid., p. 321.

CASE CXLIV.—Mother of eleven; pains lasted for sixteen hours, when she was delivered by a midwife, by turning of a living child. During the operation she gave a loud scream, and fatal syncope came on at once after delivery. Died in two hours.

Post-mortem.—Rent in right side through muscular coat only.—Mr. Hancorn. Ibid., p. 796.

CASE CXLV.—Died undelivered, after a most protracted labour, the head floating at the brim like a cork in water.—Br. Ingleby. Lond. Lancet, 1839-40, vol. i. p. 631.

CASE CXLVI.—Somewhat contracted brim. Died undelivered.—Ibid.

CASE CXLVII.-Transverse presentation; child escaped into the abdomen; delivery by version. Died .- Ibid.

Cases CXLVIII., CXLIX.—Transverse presentations. Died.—Ibid.

CASE CL.-Slightly contracted brim; impaction; crotchet within an hour; sloughing of the passages; died after some weeks -Ibid.

Case. CLI .- Æt. 36-sixth labour; once delivered by perforation; great projection of the sacrum; pubis narrow; crista sharp; antero-posterior diameter of the brim, three and one-sixteenth inch; the lateral diameter, three and one-half inch. Sixty hours after the escape of the waters, the pains having been apparently of ordinary severity; the head not descending; craniotomy was talked of; an hour and a half after this, the pains entirely ceased; head retreated beyond reach, and the child was plainly felt in the abdomen. The uterus was well contracted; the rent was in the vagina; vomiting; pulse 130; severe suffering and tenderness; she felt the child move in the bowels at the supposed time of rupture. Four hours after rupture, exhaustion, death-like; "presently" she rallied, and gastrotomy was performed; not over half an ounce of blood lost from the integuments; but a quart or more escaped from the abdomen; was better than before the operation. Died after two days from exhaustion.

Post-mortem .- Spinal curvature. No peritonitis, except lymph in the line of incision; uterus perfectly healthy; vagina extensively torn anteriorly, and separated from the uterus by a rent of four and a half inches. Child very large.—Ibid.

p. 637.

CASE CLII.-Extensive rent in the vagina; the hand easily passed into the peritoncal cavity; was supposed nearly recovered, when on the twenty-sixth day from delivery, she suddenly died from hemorrhage .- Dr. Collins' Treatise, note to p. 127.

CASE CLIII .- Æt. 25-first labour; waters escaped in twelve hours; pains brisk, but not violent. In nineteen hours the pains ceased; face pale and ghastly; limbs cold; constant yellow-vomiting; head very low. Perforation at once; much exertion required to deliver the head and even the shoulders. A most extensive rent posteriorly at the junction of the uterus and vagina; hernia of the intestines. Died after twenty-five days.

Post-mortem.—Rent nearly healed, but two openings into a psoas abscess on

each side, of which she probably died .- Ibid., p. 129.

Case CLIV .- Æt. 36-first pregnancy. Died on the fourteenth day.

Post-mortem.—Extensive peritonitis; rent at the posterior part of the vagina, at the junction of the uterus.—Ibid., p. 133.

CASE CLY .- Æt. 21-third child; head large and firmly ossified. Duration of labour, nine hours; pains not of unusual violence, suddenly ceased; pulse became rapid and feeble; countenance expressive of greatest distress; belly could not bear a touch; frequent vomiting; head low down; face to the pubis; delivery at once by crotchet; extensive rent of the vagina anteriorly. Died on the eleventh day.

Post-mortem .- Extensive adhesions; parts near the uterus and the inner surface of the bladder, of a dirty green (from blood). A transverse fissure in the cervix anteriorly of two and a half to three inches, filled up by partially organized lymph; no gangrene; a large quantity of clots, with some fluid blood in abdomen.—Ibid.

p. 133.

CASE CLVI .- At. 36-eleventh child; seven premature; after nine hours natural labour, had a sudden acute pain in the left iliac region, when the pain ceased; pulse began to sink; belly very tender; frequent vomiting: distressed countenance; head on the perincum. Forceps at once; head could not be moved; perforation, and considerable force required; the uterus acted a little at the last. A most extensive rent at the junction of the vagina and womb; placenta among the bowels; a large quantity of fluid and clotted blood removed. Died on the tenth day.

Post-mortem - A large amount of coagula; immediate cause of death was he-

morrhage; slight peritonitis .- Ibid., p. 129.

Case CLVII.—Æt. 16—first child; labour of four hours; natural delivery. Died on third day.

Post-mortem.—Extensive rent in front, through the muscular substance; sinuses under the peritoneum all around the cervix, and ulcerations of the vagina from syphilis.—Ibid., p. 142.

CASE CLVIII.—Act. 32-fifth pregnancy; labour of forty-eight hours, not very severe; natural delivery; death on the fifth day from violent hemorrhage.

Post-mortem.—Loss of muscular substance of the size of a shilling, opposite the sacral promontory; the peritoneum being entire.—Ibid., p. 143.

Case CLIX .-- Æt. 27--sixth labour; labour of one hour; natural delivery; exhaustion came on from hemorrhage. Died on the fourth day.

Post-mortem.—Rent at the junction of the uterus and vagina; muscular substance of uterus much thinned.—Ibid., p. 144.

CASE CLX.--Æt. 25-in labour two and a half days; pains brisk; head low; puerperal convulsions; perforation. Died seven hours after delivery.

Post-mortem.—Extensive rent in the muscular substance of the womb, and softening from syphilis .- Ibid., p. 104.

CASE CLX1.—Æt. 28—first labour; hydrocephalic fætus. In labour over twenty-

four hours; convulsive, sudden exhaustion; perforation; died on fifth day.

Post-mortem.—A large rent in front and lateral part of the vagina, and pseas abscess.--- lbid., p. 104.

CASE CLXII .- Æt. 26-second labour; firm bands obstructing the vagina; after three days' labour, convulsions set in; delivery natural.

Post-mortem.—Extensive peritonitis; rent in the vagina at its juncture with the uterus, opposite the sacral promontory, admitting two fingers; extensive effusion into the peritoneal cavity.—Ibid., p. 106.

CASE CLXIII .- AEt. 35-third labour; pains very strong, but no sign of danger; perforation two hours after pains ceased, and exhaustion appeared. Died on third day. Extensive rent in front at the junction of the vagina and cervix.-Ibid., p. 144,

Case CLXIV .- Æt. 32-fourth pregnancy; died on second day .- Ibid., p. 144.

CASE CLXV.—Æt. 30-second labour; narrow outlet; labour of six hours; pains suddenly ceased; cramps; extreme tenderness; vomiting; and debility; perforation three hours afterwards; shoulders delivered with considerable diffi-culty. Rent in front, and to the left, between the vagina and cervix; died on the second day.—Ibid., p. 144.

Case CLXVI.—At. 28—second child; first delivery forced; outlet narrow; labour of twelve hours; pains moderate; membranes broke; rupture soon evident; head low down; perforation extensive; rent in front, at the junction of the vagina and cervix, running into the uterus; died on second day.—Ibid., p. 145.

CASE CLXVII .- At. 30-sixth pregnancy; labour of forty-four hours; pains trifling; began to sink without any signs of rupture. Head, at the brim, out of reach of forceps; perforator used; delivery speedy. Hemorrhage reduced her much; died on the third day.

Post-mortem.-A small rent of the vagina behind, near to the cervix, opposite the sacral promontory; severe peritonitis.—*lbid*, p. 146.

CASE CLXVIII .- Æt. 34-sixth labour; duration of labour eight hours; breech presentation; child expelled forcibly; succeeded by alarming flooding; no sign of rupture, but extreme exhaustion; died in thirty hours.

Post-mortem.—Inner coat of vagina and os torn considerably behind, and one small rent in the peritoneal coat not corresponding to the other; peritonitis.—Ibid.,

CASE CLXIX .- Æt. 33-third labour; contracted pelvis; force delivered before; labour of four hours; pains very feeble and ceased suddenly; sinking; version and perforation behind the ear; died in twenty-five hours.

Post-mortem.—Uterus almost torn from the vagina.—Ibid., p. 147.

CASE CLXX.—Æt. 28—second labour; vagina obstructed by a firm band; had been much injured by instruments in a previous labour; labour of nine hours; very strong pains; the band was divided toward the rectum by a bistoury; rupture in four hours after; perforation Died in twenty-four hours. Extensive opening formed between the vagina and rectum, probably in an old cicatrix.-Ibid.,

CASE CLXXI.—Æt. 24—second labour; pains feeble; head low; began to sink; labour lasted thirty-six hours; perforation at once; died in seventeen hours.

Post-mortem -A rent of two inches in front, in the muscular substance; a quan-

tity of bloody fluid in the belly; peritonitis .- Ibid., p. 148.

CASE CLXXII - Æt. 30-second child; antero-posterior diameter of the brim scarce three and a half inches; force delivered before; labour of thirty-six hours; pains feeble; but the child advanced; sudden alarming debility; perforation at once; died in fourteen hours.

Post-morten. - An opening admitting the finger at the junction of the cervix be-

hind, and a rent of the muscular substance in front.—Ibid., p. 148.

CASE CLXXIII.— A.t. 30-first child; severe labour; its duration unknown; head low; perforation; died in fourteen hours.

Post-mortem .- Extensive peritonitis; rent in the muscular substance near the

vagina; blood beneath the peritoneum.—Ibid., p. 49.

CASE CLXXIV .- At. 30-eleventh labour; pelvis roomy; labour brisk for five hours; pains suddenly ceased; this followed by other signs of rupture; head low; forceps tried; the head receded; version; some exertion required to remove the head; died in ten hours.—Ibid., p. 149.

CASE CLXXV .-- Æt. 26-first labour; extreme deformity of the pelvis; anteroposterior diameter two and a half inches; labour of thirty hours; elbow presentation; wedged into the pelvis; version inadmissible; pains brisk; thorax perforated; "breech brought down with immense difficulty, requiring most laborious exertion for two and a half hours;" died in four hours.

Post-mortem - A considerable rent at the junction of the cervix and vagina.

CASE CLXXVI .- Æt. 35-first labour; child and secundines in the abdomen; twelve hours after rupture, version; died in sixteen hours from rupture.—Ibid.

CASE CLXXVII. - At. 27-third labour; pelvis considerably under size; active labour of five hours; head low down; perforation; died in four hours; rent posteriorly, "at the usual place."-Ibid., p. 150.

CASE CLXXVIII.— A. 26-fifth pregnancy; os partly dilated; most profuse

hemorrhage, for which delivered by version; died in two hours.

Post-mortem.—A rent through the os, probably caused by version though by no

means forced.--Ibid., p. 64.

CASE CLXXIX .- At. 30-fifth child; twenty-four hours in labour; pains from slow became more forcible; had cramps for some time before in the right side; pains suddenly ceased; prostration; forceps failed; perforation; extensive rent in the muscular substance in front, at the junction of the cervix and vagina; died almost before delivery finished .- Ibid., p. 150.

CASE CLXXX .- At. 40-fourth pregnancy; delivered by version for profuse hemorrhage; a rent found at the cervix in front, and to the right; died soon .-

Ibid., p. 55.

Case CLXXXI.—Æt. 36—ninth labour; shoulder presentation; had hemorrhage for five or six hours; version; much loss of blood; death soon; rupture of two inches in front through the muscular part.—Ibid., p. 46.

CASE CLXXXII .- Æt. 37-sixth labour; pains at no time strong; head advancing slowly; sudden cessation of pain; extreme debility, &c.; labour of forty hours; perforation at once; died almost instantly.

Post-morten.-A rent of the muscular substance in the "usual place;" cervix

not thicker than strong brown paper.—Ibid., p. 151.

CASE CLXXXIII .- Mother of three; injured in the abdomen by her husband, six weeks before labour, and not well since; pains severe; suddenly ceased; rupture suspected about twenty hours after, when the uterus was firmly contracted, and the fætus in the abdomen, out of reach; allowed to remain undelivered as affording the best chance; died thirty-six hours after rupture.

Post-mortem.—Uterus seemed perfectly healthy; rupture from cervix to fundus. —Dr. Blicke. Ryan's Journ., vol. ix. p. 123.

CASE CLXXXIV.—Æt. 35—had four living; rupture occurred while drawing at a well; os found dilated; feeble pains came on; head descended; delivered by the forceps of a very large male child about six hours after the accident. Apparent transverse rupture of the muscular substance at the neck; died in twenty hours.—Dr. Adams. Lond. and Edin. Month., 1844.

CASE CLXXXV.—Æt. 30—had several children; had been in labour several days; os the size of a dollar; pains at first strong, growing weaker; died undelivered.

Post-mortem.—An immense flow of blood; rent from cervix to fundus posteriorly, where the tissues were not thicker than pasteboard; at other parts three and a quarter or four inches thick.—Med. Chir. Rev., vol. xxv. Dr. Wombert.

Case CLXXXVI.—At. 38—mother of four dead children. In a previous labour the uterus was perceived to be thickened, and apparently diseased. Pains very strong; os fully dilated; natural presentation; promising case; pains suddenly ceased, with a rumbling in the belly. Rupture after six hours' labour; fœtus receded immediately after; the os tincæ was firmly contracted, with a margin of placenta presenting. Died in forty-two hours after rupture, undelivered.

Post-mortem—Rent in right side, which was much thinned; the left thickened: the whole uterus diseased.—Ryan's Journ., vol. ix. p. 288, from N. Amer. Archives

of Med. and Surg. Sci. Dr. Duncan.

CASE CLXXXVII.—Æ1.25—stout; mother of three dead children; two footlings. Rupture five hours from the beginning of labour; os fully dilated; pains powerful, quick and expulsive; pains ceased; suffering in the right side; vomiting and depression; forceps tried and then the perforator. Died twenty-nine hours after rupture.

Post-mortem.—Uterus rather flabby, and universally of a pinkish red, not removed by sponging. A longitudinal rent to the right, behind. At the seat of laceration

the fissues soft and easily torn .- Guy's Hosp. Reps., vol. vi. p. 72.

CASE CLXXXVIII.—Strong; borne three living children; labours lingering and very painful; linea ileo pectinea exceedingly sharp; pains extremely severe; rupture after labour of ten and a half hours. Complained of a sense of cracking and a cramp; pains suddenly ceased; great prostration; fœtus passed into the abdomen; perforation at once; delivered after some difficulty, the uterus assisting; bones of the cranium highly ossified; died fifteen hours after rupture.—Ibid., p. 73.

Case CLXXXIX.—Æt. 36—had six living children; labours difficult, the fifth instrumental; small pelvis; pains severe and constant; head slightly descended. Twenty-four hours after the beginning of labour, was seized by an attendant and violently jolted up and down during a pain, to facilitate the labour; immediately afterwards pain declined; vormiting and depression. Perforation after six or eight hours; placenta in the abdomen, and its removal difficult. Died about forty hours after rupture. Womb rent through three-fourths of the posterior part and cervix.—Ibid., p. 78.

CASE CXC.—Act. 25—had two still-born, labours instrumental; pelvis small. Pains strong; about twenty-seven hours from the first, had a sense of suffocation; pulse rose; pains gradually ceased; some hemorrhage; head did not recede; died about eight weeks.

Post-mortem.—Rent in posterior part of the cervix and vagina not healed.—Mr.

Birch, Med.-Chir. Trans., vol. xiii. p. 358.

CASE CXCI.—Mother of eleven; had a blow on the belly; went her full time; labour tedious; restless for twenty-four hours. After rest, procured by opium, strong pains came; delivery soon expected; pains suddenly ceased, and she said the child had slipped into the belly. Died in a few minutes, undelivered.—Bard's Midwifery, from Med. and Phys. Journ., vol. xiii. p. 234.

CASE CXCII.—Second labour; first delivery by perforation; contracted pelvis; premature labour induced; pains active; case favourable; rupture sudden

perforation in about an hour after. Died in about two hours. Rent transverse, opposite the sacrum.—Ramsbotham's Pract. Observ., Case LXXVII.

CASE CXCIII .- Æt. 30 -- seventh labour; good pelvis; pains strong and short; os the size of a crown-piece; pains abated, then ceased. Died in a few hours,

Post-mortem.—Rent from cervix to fundus on the right side; child escaped excepting the head; feetus hydrocophalic.—Ibid., Case LXXVIII.

CASE CXCIV .- Stout; fourth labour; previous labours tedious; duration of labour about twelve hours; labour slow; pains suddenly ceased; prostration, &c. Vectis and the forceps had been tried; head impacted, and delivered with great difficulty in two to three hours after rupture. Died in about thirty-six hours .--1bid., Case LXXIX.

CASE CXCV.—Had several living; labour of nine hours' duration, more or less; very favourable; os dilating; sudden spasm-like pain; vomiting and depression; pains gradually ceased; head receded; beyond reach of the finger; turning easy. Died in about seventy-two hours—Ibid., Case LXXX.

CASE CXCVI .- Æt. 40-seventh child; all the former still-born; deformed pelvis; head perforated when the os equalled a half-crown; one hour after this, rupture took place. Died soon.

Post-mortem.—Transverse rent above the pubes, through the muccular coat and

through the peritoneum at one point.—Ibid., Case LXXXI.

CASE CXCVII.—Second child; antero-posterior diameter of the brim two and a half inches; common labour; perforation about to be made when rupture suddenly took place; cramps in the belly; head receded; turning and perforation behind the ear at once. Died in about twenty-four hours.

Post-mortem.—A large rent opposite the sacral promontory, which was a sharp ridge.—Ibid., Case LXXXII.

CASE CXCVIII.—Shoulder presentation; rupture had taken place before delivery by version. Died in a few hours.—Ibid., Case LXXXIII.

CASE CXCIX.—Seventh labour; tedious; no alarming symptoms during labour, but gradually sank (undelivered?) in about twelve hours.

Post-mortem .- Rent of several inches in the peritoneal coat of the back and side; the fleshy portion not implicated — Ibid., Case LXXXVI.

CASE CC .- AEt. 30-second child; deformed pelvis; labour going on well; head descending; sudden, severe pain in the belly; pains ceased; great prostra-tion; perforation; delivered not without some difficulty; died about forty-eight hours after; duration of labour about forty-eight hours.

Post-mortem.—Rent in the posterior part of the vagina, not involving the cervix. Ibid., Case LXXXVII.

Case CCI.—Æt. 35-had several children; pains pretty frequent and severe; after an increase of these attended by severe pain; head well descended; uterus ceased acting and collapse after about twelve hours' labour. Died two hours after.

Post-mortem.-A large quantity of blood in the abdomen; rent at the junction of the body and cervix; around the rent it was thin, tender and very dark. Dr. Coffin, New. Eng. Journ., vol. iii. p. 114.

CASE CCII.-Very large and plethoric; labour tedious, and suffering disproportionate to the uterine action; sudden rupture seven hours after escape of the waters; head receded. Died in two and a half days, undelivered.

Post-mortem.—Uterus very firm and two inches thick; a longitudinal rent ad-

mitting three fingers. Ibid., p. 115.

CASE. CCIII.—Æt. 35—good health; borne several; at full time fell upon the ice and struck her abdomen, causing her to feel that she was split open; repeated syncopes; incessant vomiting; cold surface; death-like aspect during twenty-four hours; os undilated; occasional pain and extreme tenderness of belly; seventy-two hours after rupture, symptoms no better; os still undilated; artificial dilatation commenced, a "process so obstinately resisted by the unyielding state of the parts as to require from four to five hours to effect a delivery of the child." Child large; profuse hemorrhage, from the uterus not contracting; firm adhesion in part, of the placenta to the uterus. Died on the sixth day from rupture.

Post-mortem .- Gangrenous patches on the walls of the abdomen; fetid gas escaped; a full sized fectus among the bowels; rent in the superior part in front; very little blood "in the cavities," but a quantity of serous fluid.—Dr. Hyde. Bost. Med. and Surg. Journ., Jan. 1842, p. 377.

CASE CCIV.—At full term, considerable pain in the belly; after some convulsive movements, fætus assumed a transverse position in the lower part of the abdomen, and ceased to move. Some days afterward, new pains, and the placenta was extracted; afterward, occasional hemorrhages; the blood becoming putrid; fever and alarming symptoms. Died forty-eight days after rupture.

Post-mortem .- Womb torn in front; focus among the intestines; uterus, &c., putrilaginous .- Diet. des Sci. Med., vol. xlix. p. 241, from " Mélanges de Chirurg., tom.

ii. p. 295. M. Saucerotte."

CASE CCV.—Sixth pregnancy; was awakened from sleep by a cramp in the abdomen; severe pains with vomiting; waters escaped; womb acted violently; os dilating; arm presentation; apparently without warming the fectus escaped into the abdomen; delivered soon but no relief followed; symptoms of strangulated hernia succeeded; died in twenty-two or twenty-four hours from the first pains.

Post-mortem.—All the viscera gangrenous, and strangulation of the bowels in the rent; rent in the posterior and lateral superior part .-- Ibid., p. 243, from Al. Percy in

Observs. Acad. de Chirurg. 1783.

CASE CCV1.—Æt. 36—fifth child; labours long and severe; the first followed by chronic cystitis, but for years she had been free from disease. Labour regular from the first and everything was well. After seventeen hours' labour, the waters escaped, after which she had four pains and they then ceased. Child could be felt in the abdomen; rupture suspected, but there were no symptoms, no pain or sinking or motion of the child. Ergot was given and in about five hours, pulse rather weak and sinking; an attempt was made with forceps, then with the lever. The child suddenly escaped into the abdomen; profuso hemorrhage and syncope when the hand was introduced. Died about twenty-one hours after rupture.

Post-mortem.-Extensive rent from the fundus to the bladder; parietes of the uterus thin as paper; and at the insertion of the Fallopian tubes was transparent and frail as cobweb; bladder scirrhous and in parts two and a half inches thick. Pressure of this scirrhous mass probably caused the thinning .- Phil. Med. and

Phys. Journ., vol. iii. p. 422.

CASE CCVII .- Æt. 34-delivered in the first by forceps; in the second by version: antero-posterior diameter of the brim not over three inches. Os dilated; waters escaped; pains strong; no descent; prolapsus funis. After five hours labour, version attempted; the head was arrested; forceps applied; these failing, perforation; great difficulty experienced in turning and delivery. Metritis followed. Died on the twenty-eighth day.

Post-mortem .- Rent of the whole of the right side of the neck .- Desormeaux. Ar-

chives Gén., vol. ii. 1823, p. 77.

Case CCVIII - Æt. 30-first labour; good pelvis; very rigid os. On escape of the waters, after several hours of severe labour, blood escaped, and death followed soon from hemorrhage.

Post-mortem .- A longitudinal rent at the posterior and lateral part; the child in the abdomen, and much blood. Walls at the place of rupture evidently thinned; the neck remarkably thick and hard, almost sciurhous.—M. Guibert. Arch. Gén. vol. ix. 1825, p. 390.

Case CCIX.—Æt. 34—fifth pregnancy; had great anteversion of the womb, so that it hung over the thighs. When in labour five hours, just as the finger reached the fundus of the vagina, cried out she was killed, and fainted at once; pains ceased; waters at the same time escaped with blood; child escaped into the peritoneal cavity; feet felt, seized and dragged through the rent; child born asphyxiated, was recovered but died soon. Died.

Post-mortem .- The whole posterior part torn from the vagina; a semicircle of four or five inches, the edges of the rent rough.-M. Moulin. Arch. Gén , 1825, p. 391.

CASE CCX .- Well formed; borne several. At the seventh month, after a walk,

had hemorrhage and was very weak and ailing for two months. At full time pains came on but soon went off; os undilated. After several days a fortid discharge with bones of part of the fætus escaped by the vagina; this continued and for several months she had a prospect of recovery. Motion of a carriage during a ride induced inflammation, which soon proved fatal.

Post-mortem .- A small rent of the cervix in front through which the debris of the fœtus had escaped; remainder of the fœtus in a membranous sac disconnected from

the abdomen.—Dr. Sims. Med. Facts, vol. viii. p. 150.

CASE CCXI.—Thirteenth labour; had an enormous tumour of the spleen extending near to the pubes. Suffered a good deal in pregnancy; especially in the latter days; pains very strong; three days after escape of the waters felt a cracking in the womb, and began to bleed; duration of labour five days; died unde-

Post-mortem.—Fundus completely torn through; the enormous spleen compressed

the womb.—Ibid., vol. xxxvii. p. 262, from "Il Filiatro Sebezio, 1825."

Case CCXII.—Pains moderate and regular; after gradually declining for some time, ceased. Three and a half hours after this her face was pale, rather anxious; pulse 160, small; belly very tender; head low under the pubis. Forceps applied but the head could not be moved, even with a third blade; the limbs at this time felt in the abdomen; turning now resorted to, and the mother died during delivery; rupture on the left side.—Dr. Griscom. New York Journ. Med. ζe., 1844, vol. ii. p. 333.

CASE CCXIII.—Æt. 28—third child; os dilated; pains during two hours became intense; no descent of the head. About nine hours from the first of labour, pains suddenly ceased and a colicky pain remained. Nothing but this to indicate rupture, and nineteen hours afterward, ergot was given without effect; four hours afterward, dark vomiting and tenderness of the belly; turning about twenty-five hours from probable time of rupture: done with considerable difficulty; hemorrhage to about six ounces; herma of the bowels; died three hours after delivery.

Post-mortem.—A pint of bloody fluid; womb, contracted; a transverse rent in

front half across the os and a short one of the os; two small exostoses of the pubes.

-Dr. Wagstaff. loid., p. 381.

Case CCXIV.—Tenth labour; previous labours easy. About seven and a half hours after the escape of the waters, she felt a slight acute pain in the belly and she said; "feel what a strange lump is in my side!"—the head had receded; turning soon after, with perforation behind the ear; child hydrocephalic; rent through the whole extent of the left side; died in twenty-three hours .- Dr. Fahnestock. Ibid., p. 383.

CASE CCXV .- Contracted brim from prominence of the sacrum. Labour remarkable for violent pains, the suffering having been excessive for six hours, the pains ceased; collapse ensued; membranes were broken, and os dilated; rupture twelve hours after commencement of labour; forceps applied but failed; perforation; died on the third day.

Post-mortem - Rent to the left and behind .- Mr. Roberton, in Edin. Med. and

Surg. Journ., July, 1834.

CASE CCXVI - At. 30-delicate; second labour; the first difficult; the anteroposterior diameter of the brim diminished by projection of the sacrum. After thirteen hours had a sharp pain in the lower part of the belly, followed by vomiting and syncope; head on the perimeum; condition hopeless; considerable flooding; craniotomy.

Post-mortem —Rent in the vagina behind, into the body of the uterus.—Ibid.

CASE CCXVII.—Æt. 37—eleventh labour; brim narrow, from exostosis of the pubis; labour very long; prolapsus funis; os dilated; head filling the hollow of the pelvis. After twelve hours of labour, died suddenly without appreciable cause, undelivered.

Post-mortem.—In the left and front a rent of two inches in an ecchymosed part; foot of the fætus, enveloped in the bag of membranes, thrust through it; several pounds of blood lost .- Ibid.

CASE CCXVIII .- Æt. 28-sixth labour; four still-born; one a forceps case; brim

narrowed by prominence of the sacrum; labour but little painful; at the end of six hours, all at once a sharp pain came on; immediate hemorrrhage, and collapse directly followed. On attempting to perforate, the head retreated; version; head delivered with much difficulty; died on the second day.

Post-mortem.—Rent from corvix to fundus.—Ibid.

CASE CCXIX - Æt. 44-fifth labour; four first very difficult, but not instrumental; sacrum prominent, and exostosis of pubis. After seventéen hours, labour pains became very violent; in two hours, excessively painful cramps in the belly, then vomiting and cessation of pains forthwith. Two hours afterward, version; the fætus almost entirely out of the womb; head extracted with much difficulty. Died on the third day.

Post-mortem.—A transverse rent of the neck, involving the bladder.—Ibid.

Case CCXX .-- Æt. 29-narrow pelvis; rupture after a labour of ten hours; rent to the right in front. Delivered between two and three hours after rupture. Termination unknown --- lbid.

Case CCXXI.—Æt. 26—stout and healthy; fourth labour; former labours severe and protracted; slightly contracted pelvis. After severe suffering for several hours, the head being unusually large, and considerably advanced in the pelvis, during a severe pain had a sense of something giving way; the head receded; hemorrhage followed; faint and restless; nausea, but no vomiting; pale, and had distress in the belly. One hour afterward, no presentation to be felt; state alarming; pulse rapid and feeble; great restlessness and anxiety. Gastrotomy, occupied but a few minutes; felt much relieved; suffered less than in former labours, and began to rally; the membranous bag was found unbroken; considerable blood among the intestines; female child of eleven pounds. Patient improved until the eighth day, when she gradually sank.

Post-mortem .- A dark brown ragged opening, chiefly in the posterior wall of the vagina, and extending through a small portion of the cervix; also a considerable transverse rent at junction of cervix and vagina; edges of the rent irregular, dark brown, but free from gangrene .- Prov. Med. Journ., 1845, p. 549. William

CASE CCXXII.—Æt. 20-primipara; good health. After eight hours' labour, os nearly dilated; waters escaped; doing well; her attendant gave a dose of ergot; pains were increased; head receded; she was found exhausted, and a shoulder presented; version. Died in a few days.—*Ibid.*, 1842, p. 278, from *Journ. Prad.* Med. de Montpelier. M. Delmas.

CASE CCXXIII .- A negress, et. 35-mother of several; always suffered before and after labour. Suddenly seized with uterine pains, which went off suddenly, and were followed by fainting, hemorrhage, and nausea; os admitted the little finger; was bled, and ergot given; os dilated by force about fourteen hours after; turning. Died in about seventeen hours from rupture.

Post-mortem.—Extensive rent posteriorly; nterus unusually soft; traces of inflammation of mucous surface at different periods; peritoneum had "erysipelatous discolouration."—Ibid., 1844, p. 250. Dr. Arnold, of Jamaica.

CASE CCXXIV .- Æt. 30-seventh labour; had griping pains in the abdomen for several days. Pains during the first eight hours, irregular and spasmodie; small doses of ergot given; os well dilated; ergot again. After eleven hours of labour, had violent cutting pain, most excruciating, with a loud report which awakened the doctor. Great bearing down pains for a few moments, followed by a cessation of pain for several hours. Delivered after several hours, by repeated application of the forceps. Died in thirty hours.

Post-mortem .- Rent posteriorly; with hernia of the bowels .- Dr. Gill, Ibid.,

1841, p. 208.

CASE CCXXV.—Æt. 38—very fat; had seven children, and two abortions; labours always severe and slow; abdomen pendulous; os dilated; pains powerful but "abdominal;" head low. About nine hours after rupture of the membranes, had a very severe pain, and the uterus ceased acting for three hours, when symptoms of great prostration came on, and a rent could be felt. About three hours from rupture, version; the head assisted by the blunt hook; the child and secundines in the abdomen, with hernia of the bowels. Delivery effected with great difficulty. Died in about three and a half days.

Post-morten .- Upper part of the vagina at the junction with the uterus, lacerated posteriorly for one-half its circumference .- Mr. Elkington. 1b., 1844, p. 372.

CASE CCXXVI.—Second pregnancy; pains severe after rupture of the membranes. After twelve hours' labour, green vomiting came on, followed in a few hours by convulsions; forceps failed; version effected with difficulty. Death.

Post-mortem.—A rent of uterus and vagina admitting the fist; hernia of the bowels.—Lond. Mcd. Repos., vols. xii. and xiii. p. 159, from Bullet. Mcd., 1819.

CASE CCXXVII.—Æt. 26—fourth labour; antero posterior diameter of the brim three inches; never required artificial aid. During forty-eight hours had slight grinding pains, which went off; during the next twelve hours pains strong and frequent; os dilated. In two to three hours more, bilious vomiting; pulse quick; this was preceded by a sound of a snap, a remission of the pains, and an exclamation that all was over! Between four and five hours after this, version and perforation behind the ear; it was easily accomplished, the fœtus being small. Died between five and six days from rupture.

Post-mortem - A rent of four to five inches in the right side; hernia of the bowels: edges of the rent and inner surface gangrenous.-Mr. Holmstead. Ibid.,

vol. xxii. p. 209.

CASE CCXXVIII .- An unusually prominent sacrum; pains very slight, and subsided entirely after the escape of the waters; the os dilated; presentation natural. There had been no vomiting, scream, or other sign of rupture, and ten hours after the cessation of pain she was only a little restless, and respiration a little hurried.

Ergot given without any effect. Death.

Post-mortem.—A rent in front, in the direction of the linea ileo pectinea, which was not sharp, two-thirds across the uterus. It was of extraordinary thinness.— Ibid., vol. xxiii. p. 520, from Philada. Journ., No. 17. Dr. Broyles.

CASE CCXXIX.—Rupture of the whole parenchyma without implicating the peritoneal covering, from manual violence. Hemorrhage came on in twenty minutes; died soon from flooding .-- Davis' Obstet. Med., p. 751.

CASE CCXXX.—Subject to uterine hydatids; waters escaped when the os was only equal to a half crown; pains gradually increased for several hours, and entirely ceased; no alarming symptoms. Six weeks after this, portions of the fictus began to be discharged from an abscess near the navel, and from the vagina. Died after two months.

Post-mortem .- Small intestines communicated with the uterus by four apertures. Mr. Windsor, of Manchester, in ibid., p. 756.

Case CCXXXI.—Æt. 40-first child; rickety; pelvis very narrow; after severe pains for several days, membranes unbroken, felt something tear in her abdomen. Perforation; there was no great flooding; no vomiting, nor convulsions. Died in ten or twelve hours.

Post-mortem. - Rent at the fundus admitting the hand; hernia of the bowels. -Smellie's Cases, vol. iii. p. 385.

CASE CCXXXII .- Arm presentation; midwife endeavoured three times to turn, while the patient was struggling to prevent her, and during pains; after uninterrupted pains of twenty-four hours, the hand protruded; very soon after she became suddenly easy; ceased to cry and almost at once vomited; face cold; breathing nearly stopped. Turning; died in three hours. A circular rent of the size of a sixpence in the cervix between the foctal shoulder and the pubis. - Ashwell's Parturition, p. 316.

CASE CCXXXIII.—Pains feeble and at long intervals for a few hours; alarming symptoms followed upon slight hemorrhage, and the pains ceased; respiration laboured. Died

Post-mortem. Rent posterior; uterus sloughy, thin, and livid near it.—Gonh's Midwifery, p. 251.

CASE CCXXXIV .- Fourth labour; pelvis narrow; corpulent. Pains very strong, with a tearing sensation in the back in the intervals of pain; head at the brim, but did not advance; much coffee coloured water escaped on rupture of the membranes; when in labour over eight hours, the head receded, and a "ripping" sensation in the abdomen; version; fœtus after a while delivered as far as the hips and allowed to remain. Rent posterior, half way up to the fundus.—Edin. Pract. Med., vol. v. p. 490.

CASE CCXXXV.—Second child; the first a forceps case. Pains for thirty hours, of unusual severity; os completely dilated; pains suddenly ceased; slight hemornage; immediate vomiting of dark green; excessive prostration; difficult breathing; extreme anxiety; pulse extremely rapid and feeble. In fifteen hours no part of the fætus could be felt per vaginam; form of abdomen changed, and extremely tender; child's limbs distinctly felt; a coil of intestines in the womb, and a large rent in the left side; was in a better state than at the time of the accident; no pain except on pressure; fissure in the womb, so contracted as not to admit the finger. Gastrotomy nineteen hours after rupture; a large quantity of bloody fluid in the abdomen, and the placenta; intestines much inflamed; child large; not half an ounce of blood lost in the operation, and was comfortable after it. Died sixteen hours after the operation, and thirty-five after the rupture.—Dr. Delafield. N. York Med. Journ., vol. vii. p. 351.

CASE CCXXXVI.—Frightened the first day of labour; eight days after it began she had no pains, and was extremely low; chin presentation; version; dead child; hernia of the bowels. Died six hours after delivery.—Smellie's Cases, vol. iii. p. 386.

CASE CCXXXVII.—After eleven or twelve hours of very long and severe pains, had a terrible movement of the fœtus and fainted. Pains ceased; the belly was hard, tender, and painful; incessant vomiting, &c.; head at the brim; version after twelve hours, with little difficulty; the child's limbs among the intestines. Rent in the fundus. Died in three days.—La Motte (1726), p. 463.

CASE CCXXXVIII.—Tenth pregnancy; strong and hearty; pains lively and frequent; waters escaped; arm presentation. Pains severe for only one and a half or two hours, then gradually became feeble until six hours from the first of labour. child in the abdominal cavity; version, without difficulty. Died in four days.

Post-mortem.—The rent admitted the tip of the little finger.—Ibid, p. 464.

CASE CCXXXIX.—Primipara; after three days of labour, patient and midwife both heard something burst within her; her abdomen was of an altered form; the head impacted. Died while the doctor was gone for his instruments.

Post-mortem.—Uterus tympanitic and emphysematous on the left side where the peritoneum was separated. Substance of the womb one-eighth of an inch thick and tore like writing paper; rent posterior, from the os towards the left.—Med. Rev. and Mag., vol. i., "from Duncan's Annals, 1798."

CASE CCXL—Ninth child; twins twice; all natural. Pains had been very strong and ceased; had anxiety, pain in the belly, &c. Delivered; mode not stated. Died three minutes after delivery; hernia of the bowels; rent anterior from the os upwards.—Ibid.

CASE CCXLI -Æt. 38-first labor; progress tedious; head impacted; delivery natural. Died on third day.

Post-mortem.—Rent of two and a half inches in the right side from the fundus to the cervix; no mark of gangrene.—Ibid, vol iii., from Med. Fucts and Observs., vol. viii.

CASE CCXLII.—Æt. 36—fourth labour; arm presentation; after "utmost efforts at delivery," died undelivered. Duration thirteen hours.

Post-mortem.—Rent in the left side; extremity of rent black, thin and putrid; the inferior part preternaturally thickened to equal three fingers; remainder healthy.—Heister's Observs., No. 516.

CASE CCXLIII.—Had borne several; labour not far advanced; vomiting came on; became pulseless; clammy perspiration; cold extremities; child felt through the parietes of the abdomen. Died in about three hours undelivered.—Dr. Badford's Notes to his Translat. of Chailly, p. 268.

CASE CCXLIV.—Had borne several; head descending; somewhere about three hours from the beginning of labour, a snap was heard; immediate vomiting and collapse; very soon delivered by forceps. Died in about ten hours.—Ibid.

CASE CCXLV.—Was in labour eighteen hours; ergot had been given, and version attempted afterwards. Died undelivered, in about two hours after the presumed rupture.

Post-mortem.—A rent of six inches in the left lateral wall.—Ibid., p. 228.

CASE CCXLVI.—Delivery by natural effort; placenta retained by spasmodic contraction; died.—Burns's, op., p. 5, 475.

CASE CCXLVII.—Head resting on the perineum and head receded. Delivered; mode not stated. Died.—Ibid., from Douglas' Essay, p. 50.

CASE CCXLVIII.—Second child; the first a craniotomy case; short diameter of the brim two and three-fourths inches. Artificial premature delivery at the eighth month; rupture three and a half hours after the membranes broke; turning very soon. Died on fourth day.

Post-mortem .- Linea ileo pectinea very sharp, and sharp juttings from the pubis

into the cavity .-- Ramsbotham, Process of Parturit., p. 417.

CASE CCXLIX.—The head at the brim escaped into the abdomen, whilst the breech was forced into the pelvic cavity. Breech brought down and extracted with some difficulty. Rent at the cervix into the vagina.—*Ibid.*, p. 419.

Case CCL.—Æt. 28—well formed, but small; sixth child; pains mild at first, became severe. About six hours from the first of labour she was pale; restless; averse to move; irritable and desponding; pains trifling and unfrequent; she had flooded; the os a little dilated; membranes tense; presentation natural; membranes artificially ruptured; in a few pains the head descended into the pelvis. After a time ergot given; energetic pains induced; child's head born; and after a cessation of pains for fifteen minutes, the body and placenta expelled. Died in six hours.

Post-mortem.—Uterus firmly contracted; rupture posterior near the fundus; of the size of a crown-piece; its margin irregular, surrounded by a reddened stain; near it three or four small cracks. The rupture extended only two-thirds through the muscular substance; womb seemed sound elsewhere.—Mr. Chatto, Lond. Med.

Gaz., vol. x. p. 630.

CASE CCLL.—Mother of several; for two hours from rupture of the membranes, labour favourable, and a prospect of speedy delivery. On sitting up and making some exertion, had a sudden pain and fainting, with agitation, and said "the child had gone back again;" head receded at once; anxiety; quick respiration; restlessness, thirst, vomiting; entire cessation of pains; slight hemorrhage; rupture evidently not suspected for twenty-one hours; then the limbs felt; the child being in the abdomen, and putrid; version difficult, but the uterus uncontracted; hernia of the bowels after delivery. Died immediately.

tracted; hernia of the bowels after delivery. Died immediately.

Post-mortem.—Belly distended with gas; three pints of blood and water removed; a rent of the whole length of the womb posteriorly; this part had the livid appearance of gangrene; the rest natural.—Dr. James, in Am. Med. Repos.,

vol. vii. p. 328.

CASE CCLII. (CASE CXIII. continued.)—In her fourth labour Cæsarean section, on account of supposed contraction of the pelvis. After this delivered of twins at full time alive, by another practitioner. In her sixth labour the uterus acted with great energy, and she exclaimed that something had given way; considerable hemorrhage followed; vomiting and syncope; head receded; gastrotomy; child almost all in the cavity of the peritoneum; dead. Lived thirty-six hours.

Post-mortem .- Rupture at the place of previous incisions.

CASE CCLIII.—At. 32—third labour; pains feeble and few at first; rupture of membranes accompanied by slight hemorrhage; regular pains ceased, and an irregular pain took their place. Ergot was given; the os dilated; the head presented; forceps could have been applied, but it being many hours after rupture before she was seen, it was considered too late. Died soon after admission.

Post-mortem.—Extensive rent in the right side through the muscular substance only, from the cervix to the round ligament.—M. Dubois, in Journ. de Méd. et

Chirurg., July 1846, p. 293.

CASE CCLIV.—Ét. 28—small and always sickly; very bad health during pregnancy; mother of three. Fell with force, and at the time felt a sense of tear-

ing and giving way inside; slight vaginal hemorrhage; was restless; had an indescribable oppression in the abdomen for three days; but no pain; kept about the house. Strong pains came on, followed after some hours by exhaustion; the fætus was in the peritoneal cavity; version. Death five hours after delivery.

Post-mortem.—All the abdominal viscera intensely inflamed, except the uterus; right side of the uterus "dark-looking, relaxed, thin as a sixpence in some places, and transparent." A fissure three and a half inches in extent, with ragged sloughy edges running perpendicularly to the cervix; the remainder of the womb healthy.—Mr. Spark, Lond. Med. Gaz., vol. iii. p. 218.

CASE CCLV.—Æt. 28—fifth labour; after a sudden movement of the forus had a pain and a sense of faintness; rallied; os somewhat dilated. Eleven hours afterwards fluid detected in the abdomen; delivered by artificial means, and died twenty-two hours after the commencement of the symptoms.

Post-mortem.—Escape of a large quantity of blood; uterus large, soft and pulpy. Transverse rent at the fundus of the peritoneal coat, and not implicating the muscular coat; posteriorly a zigzag rent, involving the superficial fibres, and opening a large vein from which the hemorrhage had occurred.—Dr. Lever. Lond. Lancet, Feb. 1846, p. 588.

CASE CCLVI.—At. 47—borne no child for six years; rupture about twenty-five hours from the first of the labour; pains vigorous, and ceased gradually; no bad symptoms for five hours; one hour after rupture died undelivered.

Post-mortem.—The fectus in the peritoneal cavity, excepting the head, which was impacted; walls of the uterus "everywhere oily, and of a soft and doughy feel; rent in front to the left, where the walls were exceedingly thin and softened, and of a deep red." Dr. Elliot. N. Y. Annalist, Oct. 1846, p. 7.

CASE CCLVII.—Æt. 40 to 45—mother of four; previous labours easy; duration of labour a little less than thirty-six hours; labour favourable; within a few hours after its commencement she complained of weakness, which continued with occasional rigors until death. These, the only symptoms that could be learned by inquiry. A few moments before death a rigor, and a sudden noise in the abdomen, as if the escape of a body from a confined place. Died undelivered; rupture probably took place at the time the weakness came on.

Post-morten—Two hours after death; a large quantity of sero-sanguineous fluid of dark colour, and stightly offensive smelt; child enormous, completely in the abdomen with the placenta; uterus contracted, with a transverse rent, admitting the hand about the junction of the cervix and the body. "Nothing like thinning or disease of any kind in the uterine walls;" rupture owing to the great size of the head, which could not have passed the brim, and which was indented by the "immense force."—Dr Wragg. South. Med. Journ., March 1847, p. 146.

Case CCLVIII—Æt. 23—first child; after a labour of over forty-eight hours; with extreme rigidity of the os uteri; the whole os burst off; delivered by perforation; the head being low down. Died after eleven days.—Dr. Lever. Guy's Hos. Reps., Oct. 1845.

Case CCLIX.—Æt. 20 to 30—had regular pains for two hours, when she had sudden pain in the abdomen and nausea; great irritability, faintness and restlessness followed. Died in fourteen hours undelivered.

ness followed. Died in fourteen hours undelivered.

Post-mortem.—Forty to fifty transverse lacerations on the posterior surface; none over one-twentieth of an inch in depth; from one-fourth of an inch to two inches in length, and occupied nearly the whole posterior surface.—" Dr. C. M. Clarke, from Trans. Improv. Med. and Surg. Knowledge in Dub. Med. Jour., vol. v. p. 324.

CASE CCLX.—Delivered in a former labour by forceps; presentation natural; no distortion of the pelvis; towards the end of the first stage of labour, the pain ceased; presentation receded: considerable hemorrhage followed; dark coloured vomiting took place. Died undelivered.

Post-mortem.—The whole contents of the uterus were in the peritoneal sac, with very little blood. An immense rent of the lower part of the uterus and vagina on the left side, the edge of which was of a dark red colour, and as soft as jelly; softening had affected nearly the whole womb, but not from decomposition.—Dr. Robert Lee's Midwifery, p. 434.

CASE CCLXI.—Second child; membranes ruptured early; pains became exceedingly violent; at the end of about fifty hours from the escape of the waters, the os being of the size of a shilling, during an examination, under a strong pain, the os split on the right side a considerable distance up through the cervix. Died on the fourth day of uterine inflammation.—F. Ramsbotham, op. cit., p. 183.

CASE CCLXII.—Mother of nine; anasarca and ascites during pregnancy; the os from the beginning was thick, soft, puffy, and ædematous; when a little above the size of a crown-piece, during an examination under a strong pain, the cervix was rent upward, posteriorly; child immense. Died on the fifth day.—Ibid. p. 184.

CASE CCLXIII.—Third labour; the first instrumental, the second difficult; in labour from Saturday until Monday-noon; head presentation; contraction of the superior strait; very little progress. In the absence of the physician, alcoholic drinks were freely given to increase the pains, in place of the opiates which were ordered. Had a sudden, severe pain in the side like a stitch; pains began to diminish, and soon ceased; and died in two hours.

Post-mortem.—Cervix uteri torn across half way round the organ; the head impacted; body, limbs and placenta in the peritoneal cavities.—Dr. Post. N. Y. Jour. Med., May 1847.

Case CCLXIV.—Sixth labour. During a "tremendous pain," she felt something give way in the region of the uterus; the pain immediately ceased, and was renewed slightly two or three times. Frequent pulse; tender abdomen; anxious countenance; lips swollen and somewhat livid; and begged for delivery. Some hours after, the os was contracted as after labour; the vagina extensively rent at its junction with the cervix, and entirely detached to the left, and in front; focus and placenta in the peritoneal cavity. Delivered by version, which occupied thirty minutes; the hemorrhage had been slight; bore the operation well, and felt gratified. Died twenty-four hours after rupture.—Dr. Workman. West. Journ. of Med. and Surg.

Case CCLXV.—Æt. 36—robust; sixth labour; previous deliveries artificial; labours painless; pelvis well formed, and of good dimensions; pains feeble and infrequent for the most part. After several hours, she had a severe pain which she thought moved the child; neither child nor os could be felt; distress, vomiting, and faintness soon followed. These abated, and she was bled for severe pain at the pit of the stomach; suffered greatly for two days, then became gradually more comfortable. On 16th day, had a profuse discharge of waters. By the 20th day, the abdominal integuments sloughed around the umbilicus; her size was less; discharges very offensive; she was sinking rapidly. An incision of eight inches was made, and the child withdrawn; the placenta separated and removed; the cavity was formed by the viscera glued together, and the peritoneum of the parietes, thus shutting off all connection with the rest of the abdomen; and contained putrid blood and water. Four days after this, injections thrown up the vagina passed out of the abdominal incision. Little fever followed; felt greatly relieved, and was about the house in five weeks: menses returned, and she became strong.—Dr. Snell. Journ. Maine Med. Soc., 1834, p. 1.

CASE CCLXVI.—Æt. 44—several children, and generally easy labours. Had been in labour twenty-four hours; pains very strong; child low down, pressing on the perinæum; shoulder presentation; version without difficulty. On removing the placenta, a rent of about four inches was felt over the pubes; rigors and vomiting came on. Died in about twenty-four hours after delivery.—Dr. Ayer. Ibid., p. 8.

CASE CCLXVII.—Æt. 34—mother of three or four. After about twenty-four hours, the pains at first light and trifling, and afterward abating; waters evacuated and funis prolapsed; the vectis and crotchet were tried, and failed. She only complained of great soreness and distress about the umbilicus. After a few hours she sank and died, undelivered.

Post-mortem.—A knee of the child passed through a rent in the anterior part, four or five inches long; and running from the cervix toward the fundus; a large quantity of blood in the abdomen. Ibid., p. 9.

CASE CCLXVIII.—Æt. 42-mother of several. Physician had been with her

twenty-four hours; an arm presented, and the chin and mouth were to be felt; an attempt to turn failed; great distress in the abdomen, a large tumour could be felt in the epigastrium; a foot could be felt, and its toes; vomiting now came on, which lasted for about fourteen hours, till she died undelivered.

Post-mortem.—Feetus all in the abdomen; body of the uterus nearly separated from the cervix, and connected to the vagina only by a small portion; the uterus

was putrid.

Rupture had taken place early or before labour, as there was nothing like labour

pain after the rupture of the membranes.—Ibid., p. 10.

CASE CCLXIX. Died five months after rupture; part of the fætus having escaped by the anus; fætus putrid, and viscora disorganized; rent apparently very large; cicatrized, except for eight or ten lines. Ibid., from Recueil Period. de la Soc. de Méd. de Paris, tom. x. p. 268.

The following communication, with the interesting cases appended, is from Dr. Channing, Professor of Midwifery in the Medical School in Harvard University, whose extended experience in the practice of obstetricy has afforded him opportunities of seeing numerous examples of this accident.

Boston, Aug. 30, 1847.

DR. J. D. TRASK:-

Dear Sir:—Enclosed are rough, very rough notes of cases of ruptured womb, which have more or less directly come under my notice. You will not regard them as occurrences in my practice, or that of any other single person. I know of but one physician who has had two cases in his own practice. I have not had one in my own. Physicians may and do pass whole lives without observing cases which may not be rare in those of others, and this too without the least suspicion of their want of skill, or of knowledge. * *

I have other cases, I think, but my notes are not at hand, which I regret,

as it would give me pleasure to have sent you the whole.

The recoveries in my cases, are about ten per cent. * *

I remain your friend, &c.
W. CHANNING.

Several cases of ruptured womb have occurred here. In four of them the women were not delivered.

[CASE CCLXX.]—In one of these, in which I was especially consulted, the woman refused to have anything done after rupture occurred. In another,

[Case CCLXXI]—the medical attendant preferred that the case should be left to nature.

[CASE CCLXXII.]—In a third, the child was turned, and advanced well, until the head was to enter the brim. Here was delay. The woman said, "I am dying; will you stop till I am dead?" She died in a few minutes, and it was then very satisfactorily ascertained, that the diameter (the conjugate) of the brim was so much diminished as to prevent the entrance of the standard feetal head, except by very powerful effort, and it was during such, as I was informed by the medical attendant, rent occurred.

[CASE CCLXXIII.]—In a fourth case in which I was consulted, death occurred before delivery; and, because, of the opposition of the patient to any operation. I examined the woman after death. The fætus was lying among the intestines. The womb was well contracted, presenting a flattened thick mass, perfectly white, except in the part of it in which rupture had occurred. Here it was thin, thin as a membrane, and perfectly black. The contrast between this state of things, and of that which bordered it, was most striking. The extent of which the thinning process had extended, was a space judged to be equal to the surface of two hands' breadth. It was through the centre of this the child had escaped. It was in a portion of the womb which very exactly corresponded to one in the

abdomen—viz: the left iliae region, and extending upward from that—in which the woman had experienced much soreness and tenderness, in the latter months of pregnancy, and which she ascribed to her habit of resting that part of the nterine tumour against the washing-tub, at which she almost daily worked, for self-support, and to support her family. There is another fact of interest in this case. The head, which had been forced fairly down into the pelvis by the pains, did not in the least recede after rupture, but remained just where it was before the rent occurred. Nay more, so fairly impacted was the head, that it was with great difficulty that I could draw it back again, after opening the abdomen, and to do which I was desired to make the post-mortem examination. A writer has recently advanced the doctrine, that in a majority of cases of rupture, there is preceding, and predisposing disease of the womb. This opinion has some confirmation in this case. There was found a state of the organ, or a part of it, entirely different from its condition elsewhere, and which was certainly preceded by symptoms denoting a morbid condition of the part.

In two cases dropsy of the fatal head existed. The water was discharged by perforation after turning, and because the head could not pass until reduced in size.

[Case CCLXXIV.]—In one of these, sudden and excruciating pain in one groin and above it, immediately preceded the rent, perfect repose following the accident. The woman survived till the fifth day, promising to do well, and then rapidly sank without the supervention of disease which was marked by any distinctive symptoms.

[CASE CCLXXV.]-In the other case, death occurred soon after delivery.

In two cases a remarkable lesion of the womb was discovered after death, and which seemed allied to a morbid condition which might have preceded labour, but in which labour was the exciting cause of the lesion alluded to. In both the

placenta was retained.

[CASE CCLXXVI.]—In the first, I saw the woman some days after the delivery of the child, on account of symptoms resembling very nearly those of puerperal peritonitis. I was told that the placenta was retained, and that the woman had suffered much since the birth of her child. I found the placenta projecting somewhat beyond the os uteri, and that it was noveable. I brought it away. It was cylindrical in shape; long, round; of a light gray colour and very firm, as if it had been strongly compressed by the womb. Some temporary relief followed its removal, but in a few days after symptoms of grave peritoneal inflammation came on, and the woman died.

Upon examination, sero-purulent effusion, with masses of floating lymph were found in the abdomen. The womb was found contracted, but in shape corresponding to that of the placenta, and at the top of it having an opening which communicated into its cavity and with that of the peritoneum. An abscess had formed in the substance of the womb at its fundus, and from this pus was passing into the

abdominal cavity.

[Case CCLXXVII.]—In another case; the second of the above, of anomalous uterine lesion, labour in its two first stages was well accomplished. The placenta was retained. The cord parted; attempts were made to deliver the placenta. They failed. I saw the patient at this time and advised, after an examination, to make no farther forcible effort to bring away the placenta, but to wait, and to be governed by circumstances. The patient was for a few days comfortable. Then signs of peritoneal inflammation occurred. She was seized with very severe and forcing pains. Examination was made, but the os uteri was found firmly closed and would not admit of passing the hand or a finger. The pains at length subshided. The patient sank and died. Death occurred more than a week after the child was born.

Upon examination the uterus was found at its fundus, to have experienced a lesion through which about half of the placenta was found protruding from its cavity into that of the abdomen. The opening was circular; a form which wounds in the womb are apt to assume, in consequence of the equal action of its muscular fibres.—(See Charles Bell on Muscularity of the Uterus.)

Rupture of the womb is often preceded by very violent and distressing pain, in

the midst of some one of unusual severity, the organ gives way.

[CASE CCLXXVIII.]—A case occurred in which nothing of this kind happened. Labour; second child; was wholly natural and easy. The physician was surprised to find, on examination after a pain, made to ascertain what was the progress of the labour, that the head had receded from the position it had just before occupied. Not that it had merely done so as is common during the uterine relaxation which follows pains, but that it had much exceeded the ordinary measure. He found that by gentle pressure the head receded more and more, and soon being left to itself, that it entirely passed out of the pelvis. Rupture was thus at once declared and soon showed its ordinary effects. The child was delivered by turning. It was found entirely out of the womb, and lying among the intestines.

Reaction now took place; no violent symptoms attended this; the patient was comfortable. She lived five days after rupture, and in a condition so slightly morbid as almost to have encouraged hopes of recovery. I learned the above particulars of this case from the medical attendant; not having seen it till at a

meeting for a post-mortem examination which circumstances prevented.

[CASE CCLXXIX.]—I was one day dining with a friend in the country. He told me his gardener's wife had been in labour that day, and that the womb had given way, and she was not delivered. I went in to see her. I found her much sanken, restless, vomiting, cold, pulse small and very rapid. Her appearance was miserable enough. I now learned that the rent had occurred at 11 A. M. I told my friend that I should much like to see the physician, and he was sent for. He came between three and four P. M. and after consultation, it was agreed that an attempt should be made to deliver. I began the operation at four o'clock. Upon passing the hand, the pelvis was found perfectly empty, and at the anterior part of the abdomen, just beyond the symphisis pubis, I felt a hand of the fœtus, its fingers being toward my hand. I passed my hand, guided by the fœtal arm, till I reached the trunk, and then the feet, and gently brought them down. The turning was now accomplished, and an opiate given. Mrs. T. now rallied. Her stomach became quiet; pulse, &c., improved, and there was no more constitutional trouble than so grave a lesion should be accompanied by. This state of things continuing some days, she suddenly sunk on the fifth day and died.

Upon examination it was discovered that the rent had occurred, and extended from points corresponding to the superior and anterior spines of the ilia. It was a wide gaping fissure, so much so that you looked through it, directly across the

neck, to its posterior face.

[CASE CCLXXX.]—I have seen another case in which the rent was transverse of the collum uteri. This was a first labour, patient between thirty and forty years old. The labour was long, but in no sense a severe one. Rupture was attended by subsidence of pain, sinking and recession of the head of the fætus. This last was not so entire as to prevent the use of the forceps. This woman died seventeen days after the rupture. I saw her because of symptoms indicating severe disease in the abdomen. For some days recovery was looked for. She sunk at last without any severe precursory trouble, and till late, espècially, free from the ordinary signs of grave peritoneal or abdominal disease.

She was examined after death, and the evidences were strong of much more grave lesions than were indicated in the ordinary way during life. Adhesions had taken place extensively in the organs in and about the place. Abscesses were discovered in the place where adhesion was most marked. Rupture had taken place directly across the neck of the womb in its posterior face, and was about one and three-fourths inches in length. Contraction had taken place and explained the small extent occupied by the rent. Its edges were ragged, and gave no proof

that restorative process had taken place.

[CASE CCLXXXI.]—In one case of rupture death had occurred before I reached the house. The rent, as discovered by dissection, was longitudinal, of great extent, and involving the neck and vagina, a very usual complication. The womb was not at all contracted.

[CASE CCLXXXII.]—A case occurred in a neighbouring town. The child was turned and brought away. Death occurred soon after. In this case the rent was of great extent, the hand passing freely into the cavity of the abdomen.

[CASE CCLXXXIII.] -- I attended a woman some years ago, and after the birth of

the child, I had occasion to pass my hand into the womb to ascertain what caused retention of the placenta. I first reached a mass projecting from the womb, which I soon ascertained was not the placenta: and being guided by the cord reached the placenta, separated, and removed it. The woman did well. In her next labour, she employed another physician. The arm presented. Another physician was called in, and turning agreed on. This was done Soon after the woman sunk and died.

Upon examination, a large polypous tumour was found projecting from the os uteri, and a large rent of the womb, involving the vagina. I examined the womb after it was removed, and found it to be perfectly uncontracted, presenting a large organized bag, with a tear through much of its length. It is very probable that, in this case, the dragging of the child through the os uteri, partially filled as it was by the polypus, and the resistance of this last to the progress of the fœtus, probably led to the accident.

[Case CCLXXXIV.] -- Case of circular polypus; polypus surrounding the os uteri. In this case the patient had suffered for some time from descent of the womb, so that it was external, and the tumour was thus distinctly diagnosed. The polypus sprung from the edge of the mouth of the womb, by a very thick base, and of singular firmness. She suffered much by menorrhagia, or uterine hemorrhage. She became pregnant, and when examined during labour, one of the upper extremities was found presenting. I was called to see her. She lived about thirty miles from Boston, and when I reached the address, I found the labour was over, the medical attendant having delivered by turning. The child was dead, and, from the separation of the skin everywhere, and much distension from gas, it was pretty clear it had been dead some hours. Two or three ruptures had occurred in the circumference of the polypus, one of them very deep, and which I carefully examined, extended into the mouth and neck of the womb. The other rents were less distinct. This woman recovered. It certainly was a case which, in its extreme complication and previous history, seemed to present the least prospect of recovery; still it did well.

The treatment was mainly resolved into such a use of opium as would positively prevent pain, and keep the bowels perfectly quiet, and this for days; such a use of caloinel as would secure alterative effects, and limit inflammation as far as possible to such a degree of it as might be necessary for the establishment and continuance of the restorative process, and such an employment of the catheter as would supersede the natural functions of the bladder. The use of opium was suggested by what is known of its beneficial effects in some cases of perforation of the intestines in typhoid fever, and from other causes; of calomel, from its supposed power to control inflammation, or to keep it within the demand. The result of the case, whatever may have been the therapeutic dectrines or agencies, was wholly satisfactory. The case was one of questionless rupture, and the pa-

tient recovered.

[Cases CCLXXXV., CCLXXXVI.]-Two cases have occurred, one of which came under my notice, and the post-mortuary appearances of both of which I have examined, which were of much interest, as showing how fatal may be the consequences of apparently very slight uterine lesions occurring in labour. In these cases the only uterine tissue which had given way was the peritoneum. In one of them much more extensively than in the other, and principally about the origin of one of the Fallopian tubes. The lesions consisted in fissures of the peritoneum, as if it had been cut through with a knife. This form of rupture, if such it can be called, has been described by the late Dr. Clarke, brother of Sir Charles Mansfield Clarke, so distinguished by his writings on the diseases of females. Dr. C. describes cases of sudden death after labour, preceded by symptoms closely resembling those of rupture, and in which no other lesion was discovered after death, than the peritoneal fissures referred to.

[Case CCLXXXVII.]—Two cases of rupture occurred in the practice of the same physician, and to which he called me in consultation. The first was a case of exceedingly easy labour. It was long and troublesome, but it was almost painless. Ergot was given to increase pain. Rupture happened without any warning,

and was followed by its ordinary signs. The child was turned. Death took place a day or two after delivery.

[CASE CCLXXXVIII.]—In the second of these cases, the labour was severe. The exceeding destitution of the patient made her case much more wretched than it might, under other circumstances, have been. The child was turned, in a state of hopeless exhaustion of the woman, and death soon took place.

[CASES CCLXXXIX., CCXC.]—I have met with two cases, in which rupture was limited to the vagina. In both of these, death occurred, and under circumstances similar to those which mark the other cases in this paper.

[Case CCXCI.]—A case occurred here five or six years ago, in which rupture happened without its accustomed precursors of severe pain, or local symptoms indicating disease of the womb. The woman was most unfavourably situated, being one of our most wretched, squalid Irish. Her labour proceeded without unusual violence, until it was noticed that the head, the presenting part, had receded, and was at length out of reach. Turning was resorted to soon after, or as soon as a consulting physician was found, and the child brought from the peritoneal cavity through the natural passages. There was no question of rupture, as the child was found lying among the intestines. The symptoms immediately produced by rupture, and those which followed, were strongly marked. Still she lived on. At length, when apparently doing well, she became dissatisfied with her regular medical attendants, dismissed them, and sent for some one else; and, notwithstanding the utter wretchedness of her condition, and severe privations, she perfectly recovered. She has had a child since, and did well.

[CASE CCXCII]—The latest case to which I refer, is of recent date. Circumstances were deemed to make it necessary to apply the forceps, while the head was yet above the brim of the pelvis. The effort failed. The forceps were well applied, and all safe force used. The perforator was next resorted to, and then the crotchet. After as many as four hours of uninterrupted effort, the child was delivered. Very soon after, the symptoms of ruptured womb showed themselves. These were rapid pulse, cold, damp skin, restlessness, sinking. But a symptom most relied on, was the occurrence of a tympanitic enlargement of the abdomen, in which the distension was suddenly produced, and which soon became of great size. The skin seemed stretched to the utmost, so thin, in short, as to show that the distending air was very near to the surface. The woman died the morning following delivery. An examination was not permitted. I have no question of the accuracy of the diagnosis in this case, as the physicians in attendance had observed unequivocal examples of the uterine lesion under consideration.

Of the above, in four death occurred before delivery. In two after the opposition of the patient to any operation for her relief. In a third, the physician thought it not expedient to operate. In a fourth, the patient being conscious of coming death, asked that the removal of the child might be deferred till after that event.

In two cases dropsy of the head existed.

In two cases the placenta was retained, it being impossible to remove it until after death, in one, and until a short time before death, in the other. In both, the womb was found communicating with the peritoneal cavity, in its fundus—and in one in which the placenta had not been delivered, it was projecting from the womb into the cavity of the abdomen.

In two cases the rent was transverse. In one of these it was across the anterior part of the womb, corresponding to the brim of the pelvis; the woman living five days. In the other it was across the posterior face, the

woman surviving seventeen days.

In two cases polypus existed. In both of them the upper extremity presented. In one the polypus arose from the inside of the organ by a pedicle. The child was turned; the woman died soon after, and an examination showed a longitudinal rent of the womb of great extent, involving the os uteri. In the other, the polypus was circular, surrounding the os uteri.

In this the child was turned, and recovery followed. The ruptures here, for there were more than one, involved the polypus and os uteri.

In two cases rupture was confined to the peritoneum; both fatal.

In two cases rupture limited to vagina; both fatal.

In two cases recovery."

The following is from a communication with which we have been favoured by the politeness of Prof. C. D. Meigs, of Philadelphia.

"I have met with a few cases of rupture of the womb in labour, all of

which proved fatal within some twenty or thirty hours.

The cases that have fallen under my notice, have not been recorded by me, and I cannot, therefore, give you the particulars of them. I am aware that some of them, at least three, followed the ergotic contractions induced by the imprudent exhibition of secale cornutum.

[Case CCXCIII.]—In a case that occurred this spring, the gentleman administered the ergot at midnight, or a little later, and the child escaped into the peritoneum at about 2 A. M. Her fate was announced-but as she lingered longer than was expected, I was called at 7 P. M.

I proposed to perform gastrotomy; but as the child could be touched through the rent in the vagina and cervix, it was deemed unadvisable to execute this purpose. Whereupon I withdrew it, by means of my craniotomy forceps, after making perforation of the cranium. The woman was sensible, though pulseless all the while, and quite conscious of her dying state. The operation was most fatiguing to me, and painful and exhausting to her, as the child was very large, and the pelvis a very bad one, which had caused laborious labours before. She survived the extraction for some hours.

A post-mortem examination showed me, that it would be far more humane in all such cases to extract the child by a gastrotomy operation, as the least painful, and least mischievous. I bitterly regretted having changed my purpose, and am now fully resolved in all future cases of rupture and escape to open the abdomen. admit that a woman might recover, the child being left unextracted, but such good fortune is nover to be expected. A hasty and speedy removal of the child and secundines gives, in my opinion, a chance not greatly inferior to that in Casarean

The following case occurred in the practice of a friend in this city, by whom we were requested to see the patient soon after the occurrence of the accident.

[Case CCXCIV.]—Dec. 23d, 1846.—At 3 A.M., we first saw the patient. Her condition was as follows. She lay upon her back with the knees partially drawn up; countenance pale and denoting great anxiety; face and upper extremities bedowed with perspiration; the lower extremities cold; was almost insensible, and when aroused complained of pain and soreness in the abdomen; pulse exceedingly rapid; the abdomen very sensitive to pressure; and the distended bladder felt distinctly above the pubes.

The doctor stated that he was called to the patient between nine and ten o'clock. the preceding evening. He was told that pains came on about midday, when a midwife was called in, who soon left, believing that labour had not commenced. Unfortunately she returned in the evening, and left indubitable evidences of her officiousness: the labia being greatly swollen and livid; and the poor patient assured the doctor that this woman had "pulled her almost to death."

At the time of the doctor's arrival, the pains were moderate and even, as he considered, of deficient force, seeming rather dilating than expulsory. The head was in the cavity of the pelvis, about entering the inferior strait; the brow presenting, and the outlet was somewhat diminished in its transverse diameter. The patient had been delivered one year before of a living child, by means of forceps. Pains being so moderate that no suspicion of any danger to the uterus could be excited, and the bones of the head being very movable, the doctor determined to trust awhile to the efforts of nature.

Under this condition of things, about a quarter past two o'clock, she suddenly complained of faintness, and at the same time expressed a belief that something had given way within her. Two or three feeble pains followed; vomiting ensued; the head retreated from the inferior strait, and she fell into complete collapse.

Brandy was freely given her but rejected.

This was from one-half to three-fourths of an hour before our arrival. Notwithstanding the feeble character of the pains up to the time of the accident, there could be no doubt that rupture of the uterns had taken place. It was agreed to continue administering brandy freely for awhile in order if possible to bring on reaction. A gum catheter was introduced, and about a pint and a half of urine drawn off, of the colour of strong coffee; an attempt to introduce the silver catheter some time previous, had failed. A hard tumour was now felt in the right side of the abdomen just below the margin of the ribs, presenting about the size and feel of a contracted uterus after delivery; below it nothing could be distinctly felt through the abdominal walls, the whole abdomen being, in fact, too sensitive to permit of any accurate examination. During twenty or thirty minutes she took over half a pint of brandy which she retained; under its infinence, intelligence returned; the countenance brightened; and she had considerable strength to assist in changing her position. There was not, however, a corresponding improvement of the pulse, and it was agreed that the only chance for herself or child was immediate delivery, though little expectation could be entertained of saving either.

The space between the tuberosities of the ischia appeared to be less than three and a half inches. The head rested on the brim of the pelvis, with its long diameter corresponding to the transverse diameter of the superior strait, and movable. Some blood flowed from the vagina when the head was disturbed. Version was contra-indicated by the contracted outlet; the choice was between the perforator and forceps, and though no attempt was made to ascertain if the child were alive, because of the difficulty of distinguishing the pulsations of its heart from those of the iliac arteries of the mother, which were now as frequent as those of the fœtus; yet in order to give it a chance, if alive, the forceps were selected. The blades were introduced without difficulty, and just being locked, when it became apparent that the poor creature was sinking. The forceps were accordingly withdrawn, the patient replaced upon the bed, and in a few minutes she expired.

Post-mortem .- Four hours after death whole surface of the body blanched. Abdomen very tense and distended; contracted fundus felt in the right side, and could be grasped in the hand; in the left hypochondrium a limb could be felt on deep pressure. Upon laying open the peritoneal cavity liquid blood gushed out, and from three to four quarts were removed. The fortus lay in the left side of the abdomen, the head only remaining within the uterine cavity, the lacerated edges contracted around the neck. The placenta was lying in the peritoneal cavity, a small portion only remaining still attached to the fundus uteri. The fundus and the portion of the body not surrounding the head of the fætus was firmly contracted. She had evidently perished from hemorrhage.

The rent was irregular and ragged, involving the posterior and lateral aspect of the cervix, running up into the body of the womb and down into the vagina.

The womb was apparently somewhat thinned at the place of rupture.

Professor Bedford, of the University of New York, has kindly furnished us with the six following cases, additional to those already quoted from his valuable additions to Chailly's Midwifery.

[Case CCXCV.] Oct. 10, 1844.-Mrs. H., of Williamsburgh, was taken in labour with her fourth child. When labour commenced she sent for a midwife; shoulder presentation; arm came down; midwife made violent traction on it. Fourteen hours after labour began I was sent for; found the patient much prostrated, with more or less constant vomiting; child undelivered; mouth of womb relaxed. I turned, and delivered her of a living son. Neck of the uterus had been ruptured by rude manipulations of the midwife. Patient recovered after four weeks extreme feebleness.

[CASE CCXCVI.] Dec. 9, 1844.—Dr. Burtsell sent for me to see Mrs. A., who had been in labour four days. Before Dr. B. had arrived, a physician in attendance had administered ergot freely. The pelvis, though not deformed, was small. Yomiting and prostration; head at the inferior strait. The woman's strength failing, I applied the forceps, and delivered her of a living son. After-birth was retained; introduced the hand to remove it, and found a small rupture in the anterior surface of the womb just above the cervix. Patient recovered in two weeks without one untoward symptom, except great weakness.

[Case CCXCVII.] June 14, 1844.—I visited a patient of Dr. Ostrom, in New Jersey; patient in labour thirty-seven hours when I first saw her. Pains had been violent, but no progress in the labour, except the mouth of the uterus was dilated to the extent of a four shilling piece. The patient possessed an extremely rigid fibre; ordered bleeding to twenty ounces, followed by a solution of tartar emetic. Pains continued vigorous; mouth of the womb dilated a fraction more, and became softer; no further progress in delivery after six hours. During a violent pain, something was heard to give way; this was followed by vomiting and great prostration, with cold extremities. I suggested the propriety of turning, and performed the operation, and delivered the patient of a living son. The womb was ruptured on the left of the cervix, and the patient survived twenty-four hours.

[CASE CCXCVIII.] Jan. 18, 1846.—Mrs. N., in the ninth month of pregnancy, was struck on the abdomen with a stone. Labour came on, with vomiting and sickness; cold extremities, &c. &c. There was rupture of the womb. She was delivered naturally in four hours of her third child. Died in twelve hours from the effects of rupture.

[Case CCXCIX.] March 3, 1845.—Dr. Reiley requested me to see Mrs B. with him. She had been in labour ten hours when I saw her; no progress notwithstanding violent contractions. On examination, found the cervix in a state of scirrhus, and rupture at the fundus. The child had partly escaped into the abdomen. The woman died three hours after my arrival. The abdomen was opened, and the child removed. If I had arrived in time, I should have laid open the mouth of the uterus with a bistoury.

[Case CCC.] Jan. 16, 1847.—I was requested by Dr. Thomas to visit a lady in West Chester, who had been in labour twenty hours. The arm protruded through the vagina, and had been in this situation for six hours. Patient had suffered most acutely from violent and increasing pain. One hour before I had arrived she was seized with great prostration and vomiting; there was rupture of the cervix; pelvis small, though not deformed. I turned and delivered her of a living daughter. The mother recovered in two weeks.

"These six cases, with the five mentioned in my note in Chailly, eleven in all, are the cases I have met with in my practice. Of these eleven, in three the mother recovered, and four children were delivered alive. You will please remember that in every case I was called in consultation."

Dr. Wm. R. Wagstaff, of New York, late Resident Physician of the Lying-in Asylum, during a practice of eight years, in which he has attended nearly twelve hundred patients in their confinements, has had three cases of rupture of the womb. The first is Case CCIII. of our series.

[CASE CCC1.]—"The second was in a patient of Dr. Ira B. Blakeman. She was a strong, healthy Irish woman, who had given birth to three full-time living children, without any preternatural difficulty. In this labour, her fourth, the doctor was summoned in the evening, and upon examination, found a natural vertex presentation, parts dilatable, pains recurring at proper intervals, and not unusually forcible; in short, all the evidences of an easy, natural labour. The membranes gave way soon after the os was fully dilated, and as the head was engaging in the superior strait; in half an hour after their rupture, the head being in the inferior strait and pressing on the perineum, during a pain she exclaimed that something had snapped in her side." The pain instantly ceased, and there was no recurrence of contractions of the uterus afterwards.

I was immediately summoned by Dr. B, and arrived about an hour after the accident; she was then complaining of a continuous lancinating pain in the epi-

gastric region, with constant vomiting. I applied the forceps to the head, and delivered at once without difficulty. The child was a male, weighing about seven pounds [and dead]. No contraction followed the delivery of the child, and upon passing my hand into the cavity of the uterus for the purpose of exciting contractions, and effecting the delivery of the placenta, I found a large quantity of intestines protruding into it through a laceration of considerable extent on the anterior side near the fundus. No contraction of the uterus ever took place, nor could reaction be established, although stimulants were freely administered. She died fourteen hours after delivery. A post-mortem examination was denied.

[CASE CCCII.]—In the early part of this summer, I was called to attend Mrs. C., a strong, healthy woman, in labour with her fourth child. Her first had been born without any artificial assistance, after a protracted labour of five days. Her second was delivered by instruments. Her third I had delivered with instruments thirteen months previously, at the request of her attending physician, on account of inertia of the uterus. When summoned to attend her in her last confinement, I found upon examination a vertex presentation, os uteri dilated fully, parts flaceid, pains forcible, but not unusually violent, and everything progressing naturally. In a short time the membranes ruptured spontaneously, and in a half hour afterwards, the head having reached the inferior strait, she experienced a sensation of something giving way during a pain, which immediately ceased. Having waited for fifteen minutes, and observing no recurrence of the propulsive efforts of the uterus, and being alarmed by her continuous complaint of a sharp lancinating pain in the epigastric region, I made examination per vaginam, and found that it was impossible to reach the child, and that the os uteri was firmly contracted. On passing my hand over the abdomen I distinctly felt the focus beneath its parietes, and low down, just under the arch of the pubes, a firm, hard ball, which I at once recognized as the contracted uterus. On account of the difficulty always attendant upon obtaining a medical consultation in the night, it was four hours before the operation of gastrotomy was performed. In the presence of Drs. Powers, Whittaker, and several others, I opened the abdomen through the linea alba, and found the child and secundines in the cavity of the peritoneum, together with a large quantity of blood and water, all of which was carefully removed, and the uterus firmly contracted, and down in the cavity of the pelvis. The child was a male, weighing nine pounds, and dead. The lips of the wound were brought in apposition and retained by six sutures. It was found necessary to administer stimulants freely during the operation, and in fact during the whole residue of her life. She never so rallied as to admit of the abstraction of blood, nor was it thought advisable to apply blisters. Twelve hours after delivery sho commenced discharging from her stomach a large quantity of dark green-coloured fluid, mixed with such nourishment as had been taken, amounting to more than a gallon in twenty-four hours, and this she continued up to the time of her death, which took place six days after the operation. Her bowels were daily evacuated by the excitement of enema. Ice was kept constantly applied over the abdomen. The upper part of the wound healed by the first intention, the lower part remained open, and through it there exuded continuously a greater or less quantity of bloody fluid. I regret that no examination, post-mortem, could be obtained.

Case CCCIII.—A specimen of rupture of the anterior wall of the uterus and of the bladder, by the forcible introduction of the forceps.—Museum of New York Hospital, presented by Dr. Watson.

In the next number of this Journal we propose to consider the symptoms of rupture of the uterus, the cause, both remote and proximate, of this accident, its pathology, and the most successful mode of managing it, as deduced from the cases we have collected,